

Electrical documentation

GEMINI

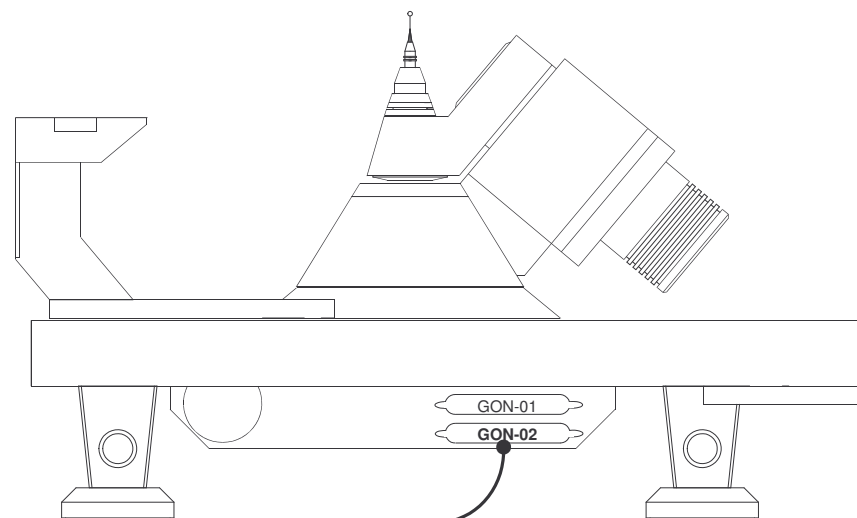
Single Crystal Diffractometer



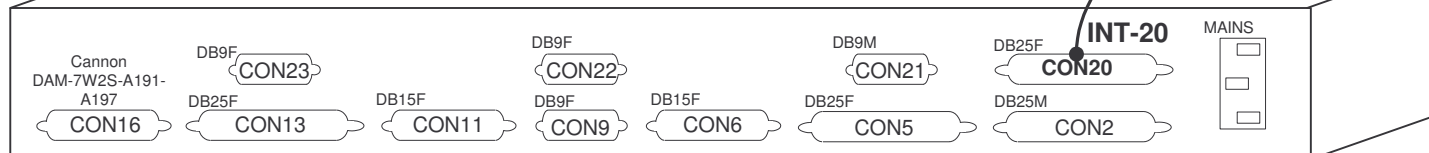
version 1.00

03.2005 Wrocław




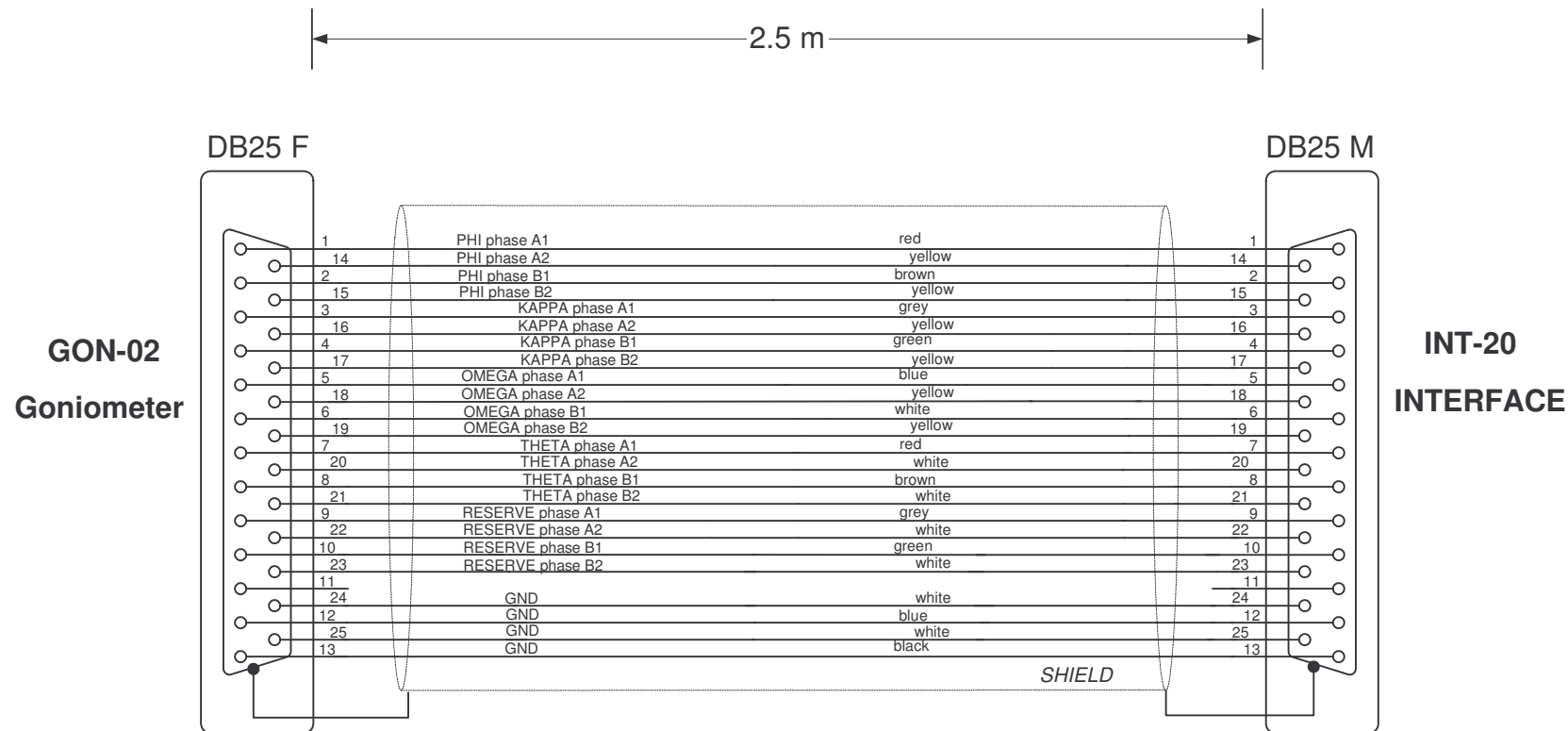



EC-02-01-001-A

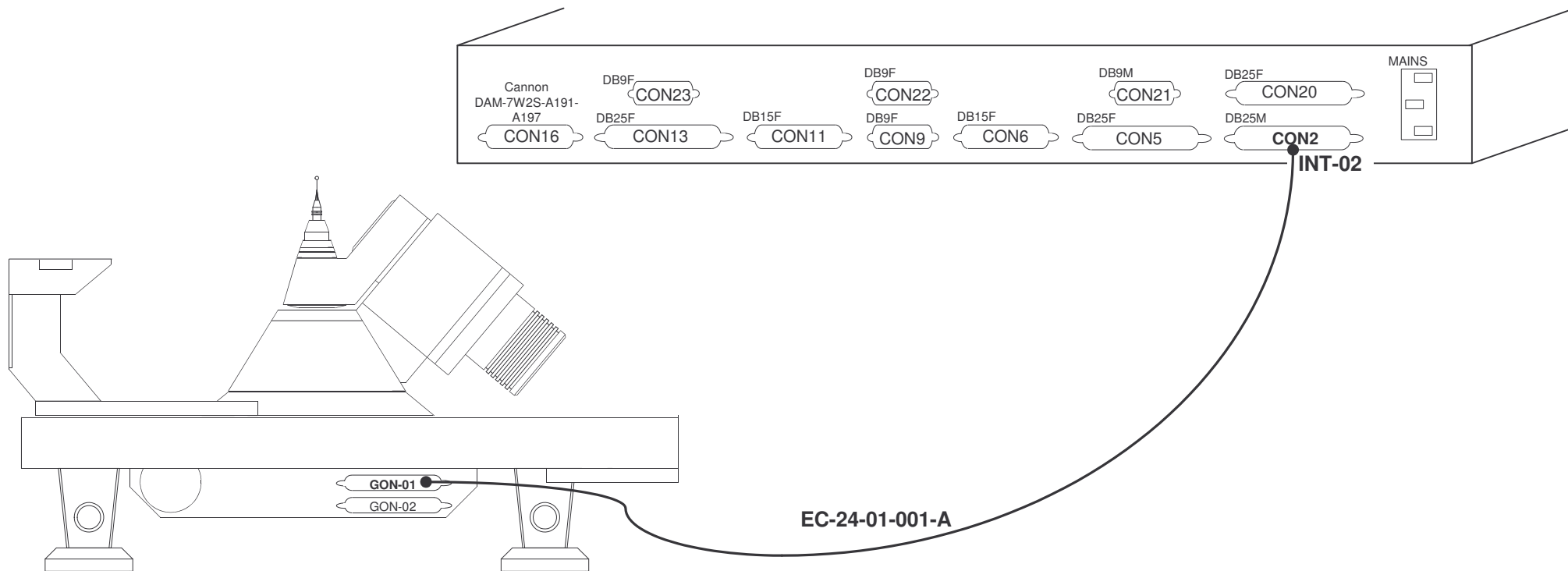


PNS code: EC-02-01-001-A		Length: 2.5m	Drg no.: EC-02-01-001-A
Description: Stepping motor supply			
Cable: 2 x 12 x 0.25 mm2 shielded		Connector 1: INT-20	Connector 2: GON-02
		PNS code: EA-06-00-005-A	PNS code: EA-06-00-006-A
PNS code: EA-05-00-014-A		Type: DB25 male	Type: DB25 female
Type: LiYCY2x12x0.25 shielded		Location: Interface – rear panel	Location: Goniometer


					<div><div> oxford diffraction</div><div>DRG NO.</div><div>EC-02-01-001-A</div><div>DRAWN BY: R. S.</div><div>APPROVED BY:</div></div>	<div>TITLE:</div> <div>Xcalibur \ Gemini</div> <div>Stepping motors cable</div> <div><div>FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div><div>REV. D</div></div> <div><div>DATE: 06/07/2001</div><div>SHEET 1 of 2</div></div>		
A. No.	B	C	D					
Appr								
Date	12/2002	05/2004	04/2005					

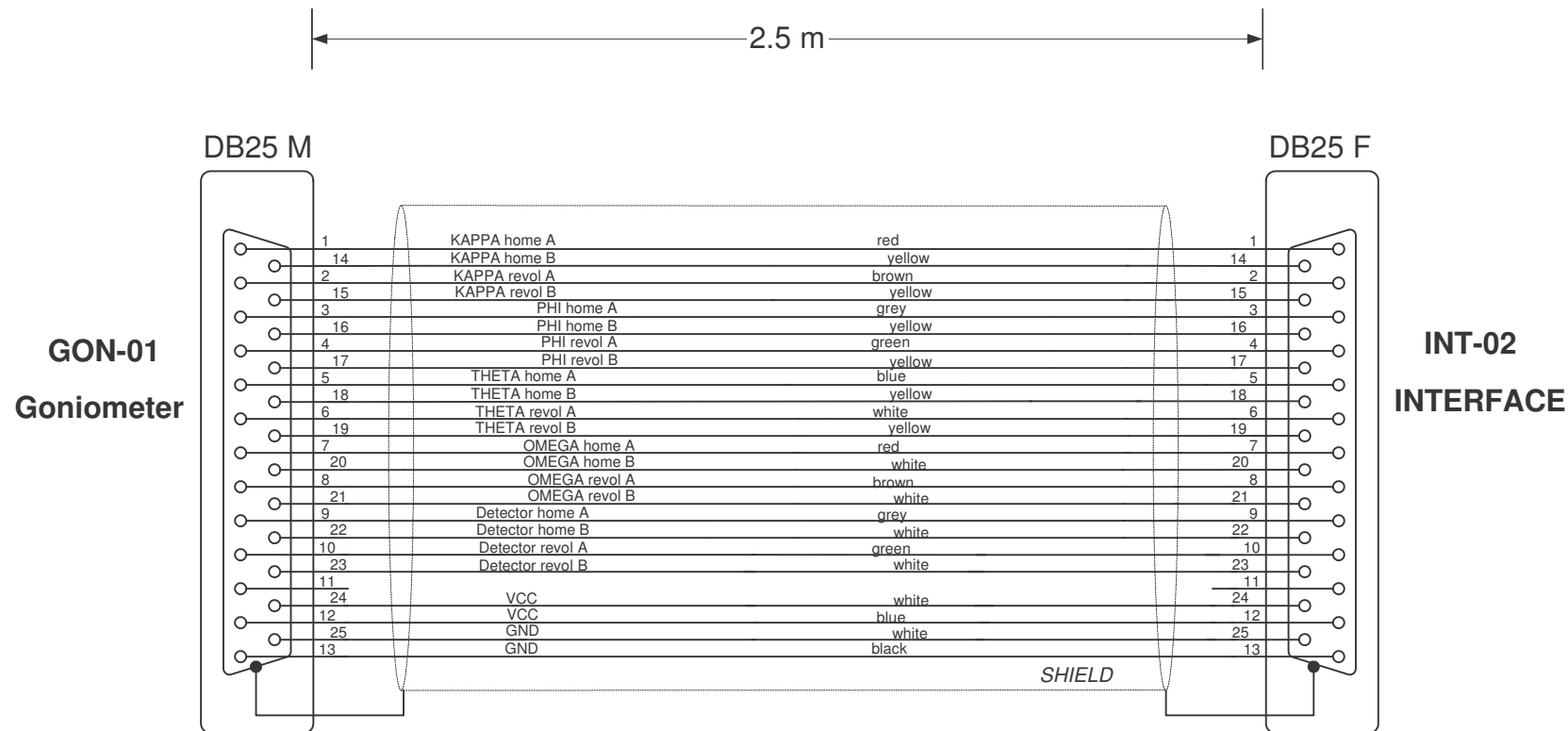



					 oxford diffraction DRG NO. EC-02-01-001-A	TITLE: Xcalibur \ Gemini Stepping motors cable	
A. No.	C	D				FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. D
Appr					DRAWN BY: R. S.		
Date	12/2002	04/2005			APPROVED BY:	DATE: 04/07/2001	SHEET 2 of 2

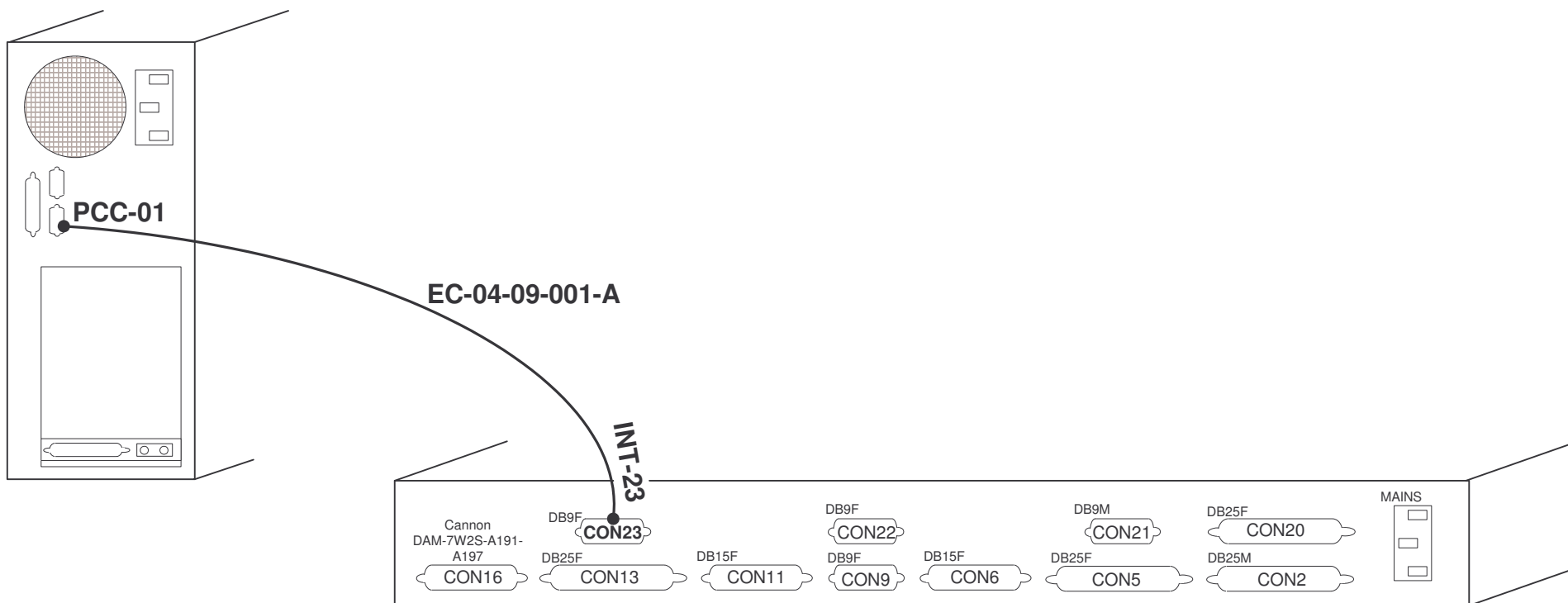


PNS code: EC-24-01-001-A		Length: 2.5m	Drg no.: EC-24-01-001-A
Description: Encoders communication			
Cable: 2 x 12 x 0.25 shielded	Connector 1: INT-02		Connector 2: GON-01
	PNS code: EA-06-00-006-A		PNS code: EA-06-00-005-A
PNS code: EA-05-00-014-A	Type: DB25 female		Type: DB25 male
Type: LiYCY2x12x0.25 shielded	Location: Interface – rear panel		Location: Goniometer


<table><tr><td>A. No.</td><td>B</td><td>C</td><td>D</td><td></td></tr><tr><td>Appr</td><td></td><td></td><td></td><td></td></tr><tr><td>Date</td><td>Dec. 2002</td><td>05/2004</td><td>04/2005</td><td></td></tr></table>					A. No.	B	C	D		Appr					Date	Dec. 2002	05/2004	04/2005		<div><div>oxford diffraction</div><div>DRG NO.</div><div>EC-24-01-001-A</div><div>DRAWN BY: R. S.</div><div>APPROVED BY:</div></div>		<div>TITLE:<div>Xcalibur / Gemini</div><div>Encoders cable</div></div> <div>FILE:<div>\\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div></div> <div>REV. D</div>		
					A. No.	B	C	D																
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					Date	Dec. 2002	05/2004	04/2005																
DATE: 06/07/2001		SHEET 1 of 2																						

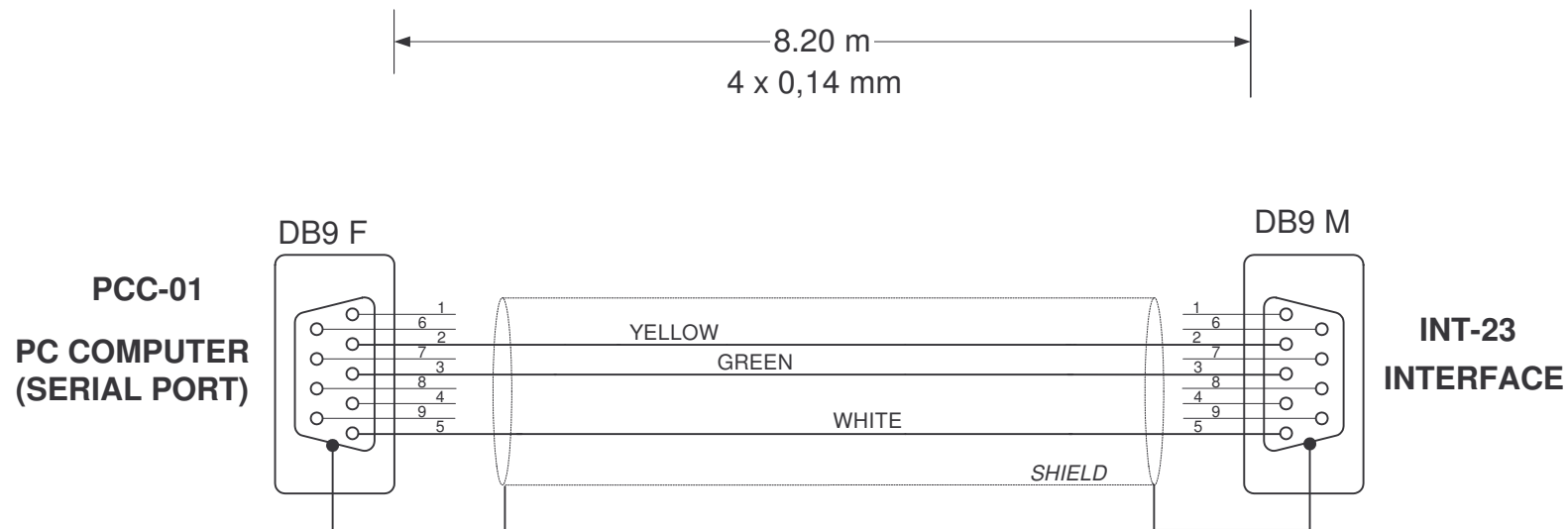



					 oxford diffraction DRG NO. EC-24-01-001-A	TITLE: Xcalibur / Gemini Encoders cable	
A. No.	C	D				FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. D
Appr					DRAWN BY: R. S.		
Date	Dec. 2002	04/2005			APPROVED BY:	DATE: 04/07/2001	SHEET 2 of 2

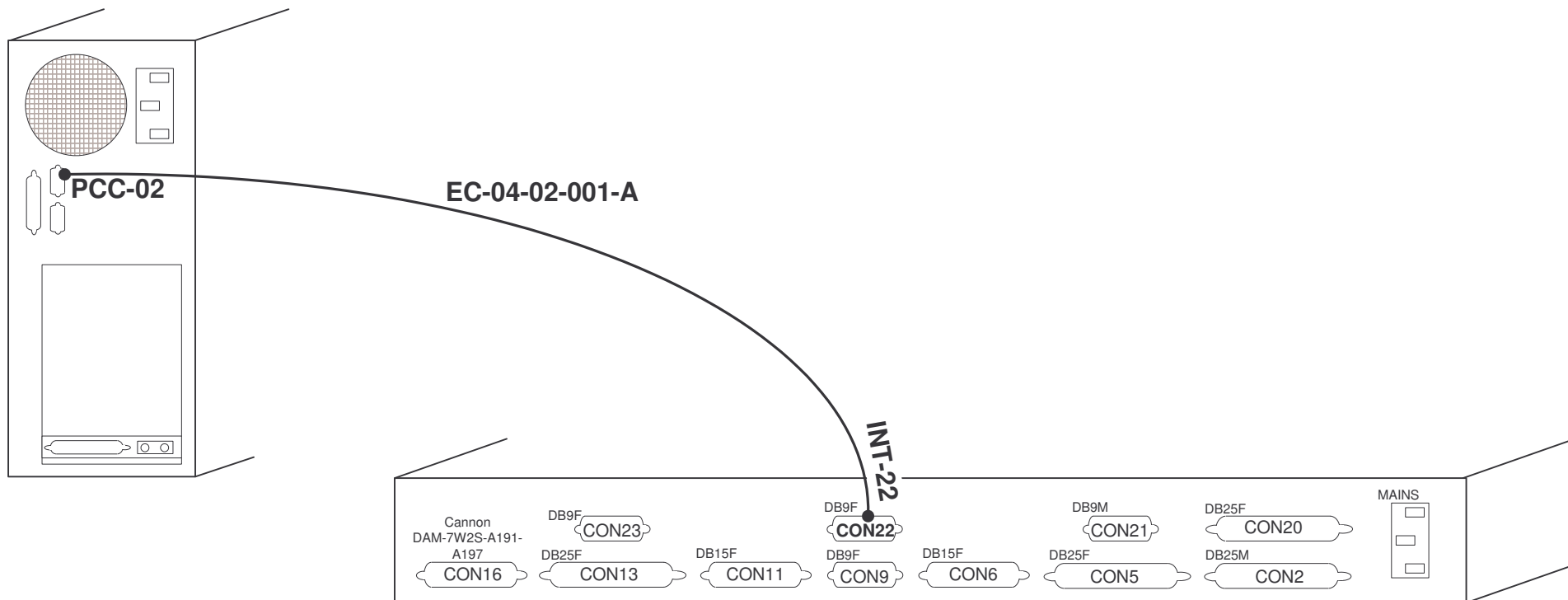


PNS code: EC-04-09-001-A		Length: 8,20m	Drg no.: EC-04-09-001-A
Description: Interface communication			
Cable: 4 x 0.14mm2 shielded		Connector 1: INT-23	Connector 2: PCC-01
		PNS code: EA-06-00-001-A	PNS code: EA-06-00-002-A
PNS code: EA-05-00-002-A		Type: DB9 male	Type: DB9 female
Type: LiYCY4 x 0.14 w ekranie		Location: Interface – rear panel	Location: PC (serial port)


					<div> oxford diffraction</div>	<div>TITLE: Xcalibur / Gemini</div> <div>Interface RS232 cable</div>		
					<div>DRG NO.</div> <div>EC-04-09-001-A</div>			
<div>A. No.</div>	<div>B</div>	<div>C</div>			<div>DRAWN BY: R. S.</div>	<div>FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div>		<div>REV. C</div>
<div>Appr</div>					<div>APPROVED BY:</div>	<div>DATE: 04/07/2001</div>		<div>SHEET 1 of 2</div>
<div>Date</div>	<div>Dec. 2002</div>	<div>04/2005</div>						

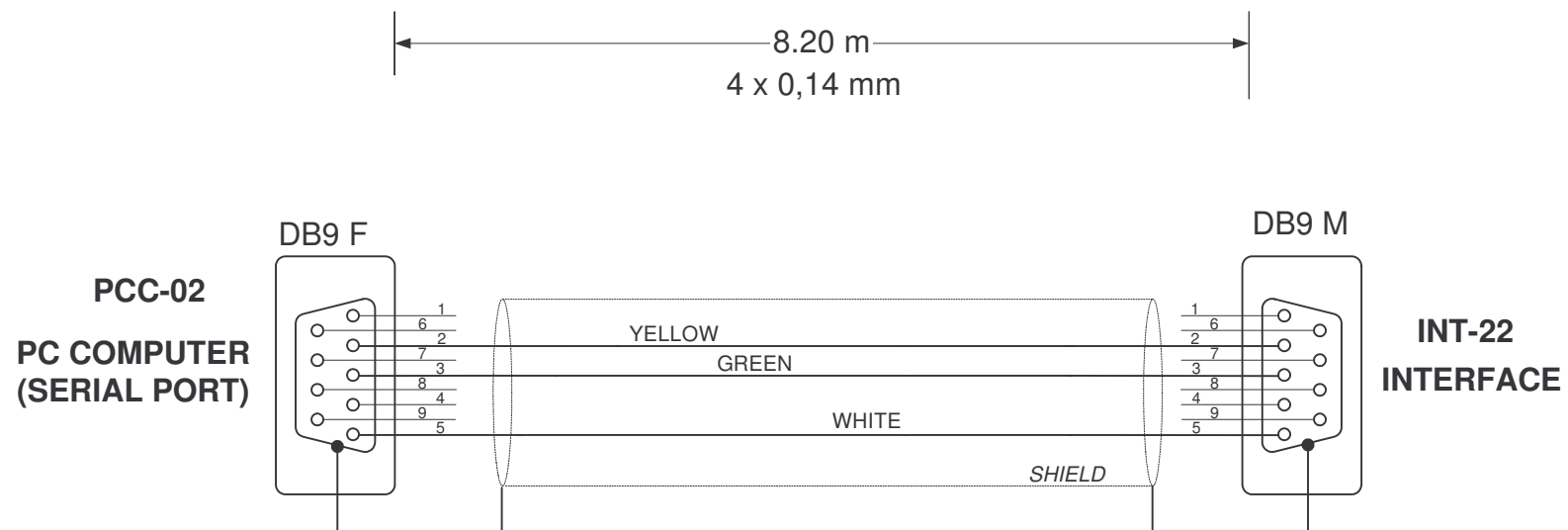



					 oxford diffraction	<i>TITLE:</i> Xcalibur / Gemini Interface RS232 cable					
					<i>DRG NO.</i> EC-04-09-001-A						
					<i>A. No.</i>	B	C			<i>FILE:</i> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	<i>REV.</i> C
					<i>Appr</i>					<i>DRAWN BY:</i> R. S.	
<i>Date</i>	Dec. 2002	04/2005			<i>APPROVED BY:</i>	<i>DATE:</i> 04/07/2001	<i>SHEET</i> 2 of 2				

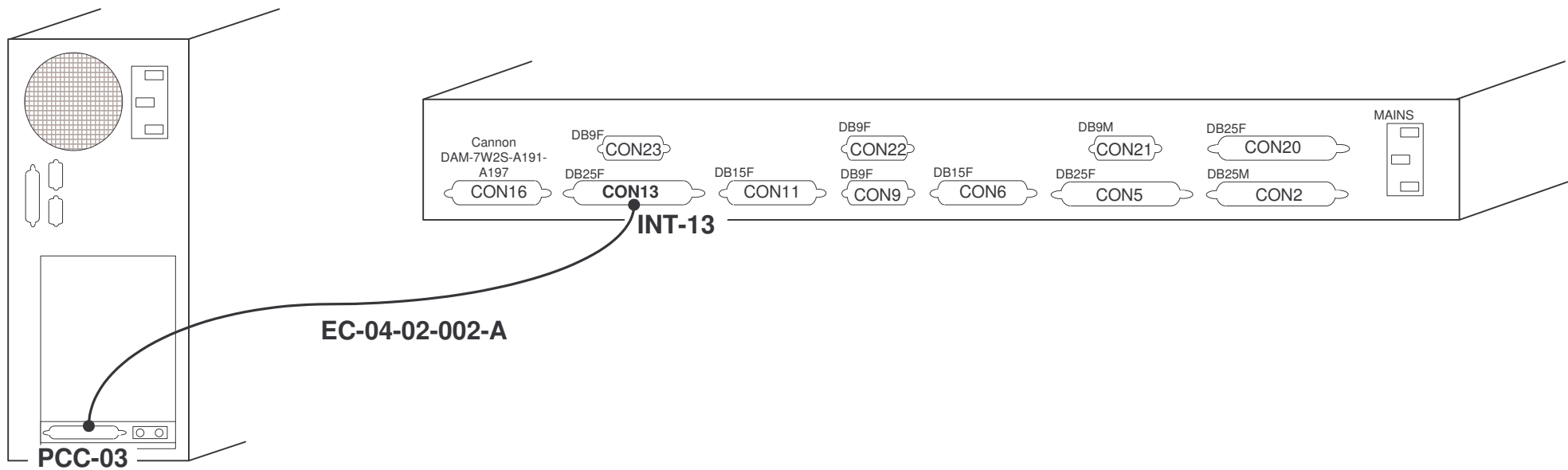


PNS code: EC-04-02-001-A		Length: 8.20m	Drg no.: EC-04-02-001-A
Description: CCD power supply communication			
Cable: 4 x 0.14mm2 shielded	Connector 1: INT-22		Connector 2: PCC-02
	PNS code: EA-06-00-001-A		PNS code: EA-06-00-002-A
PNS code: EA-05-00-002-A	Type: DB9 male		Type: DB9 female
Type: LiYCY4 x 0.14 shielded	Location: Interface – rear panel		Location: PC (serial port)


					 oxford diffraction DRG NO. EC-04-02-001-A	TITLE: Xcalibur / Gemini CCD power supply to PC (RS232)		
A. No.	B	C						
Appr					DRAWN BY: R. S.	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. C
Date	Dec. 2002	04/2005			APPROVED BY:	DATE: 06/07/2001	SHEET 1 of 2	

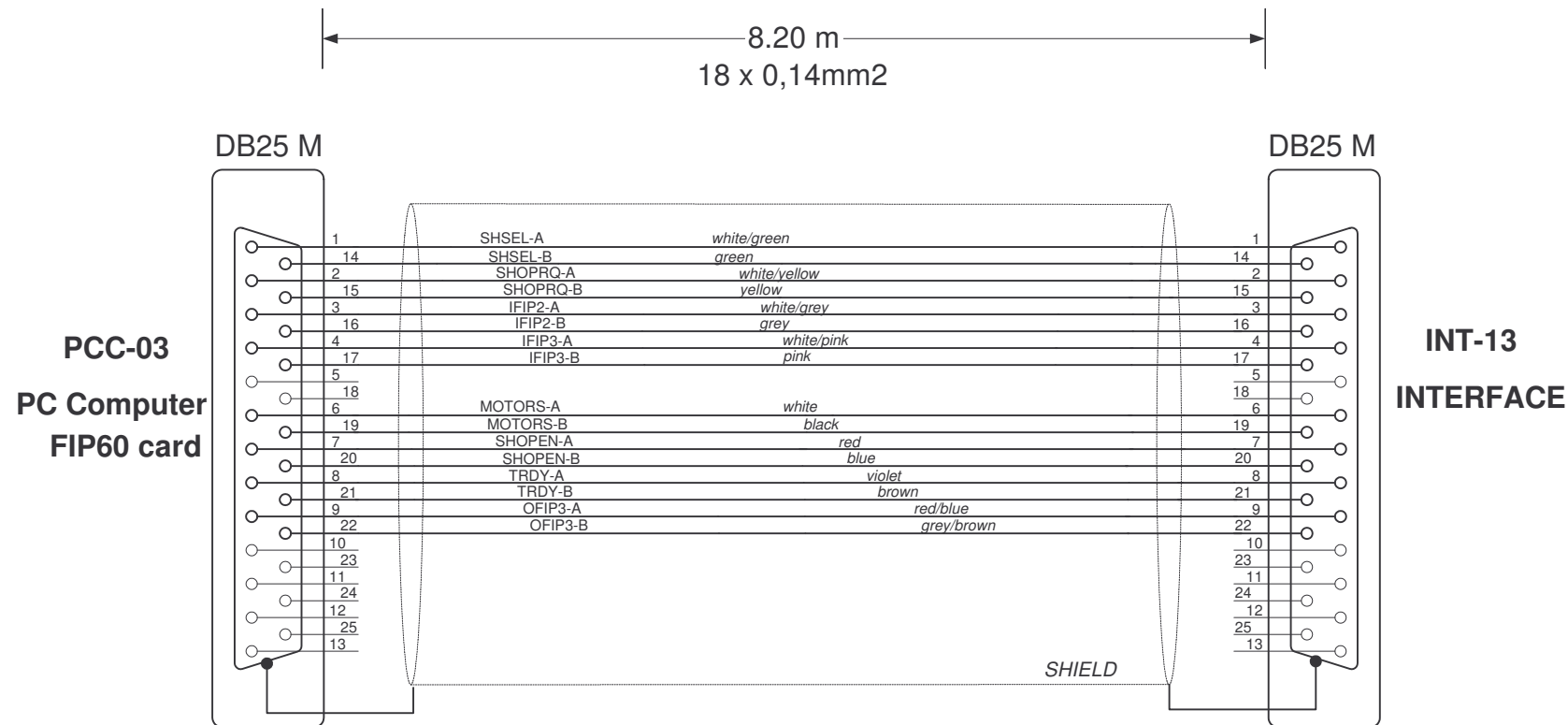



					<div><div> oxford diffraction</div><div>DRG NO. EC-04-02-001-A</div><div>DRAWN BY: R. S.</div><div>APPROVED BY:</div></div>	<div>TITLE: Xcalibur / Gemini CCD power supply to PC (RS232)</div> <div><div>FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div><div>REV. C</div></div> <div><div>DATE: 04/07/2001</div><div>SHEET 2 of 2</div></div>		
<i>A. No.</i>	B	C						
<i>Appr</i>								
<i>Date</i>	Dec. 2002	04/2005						

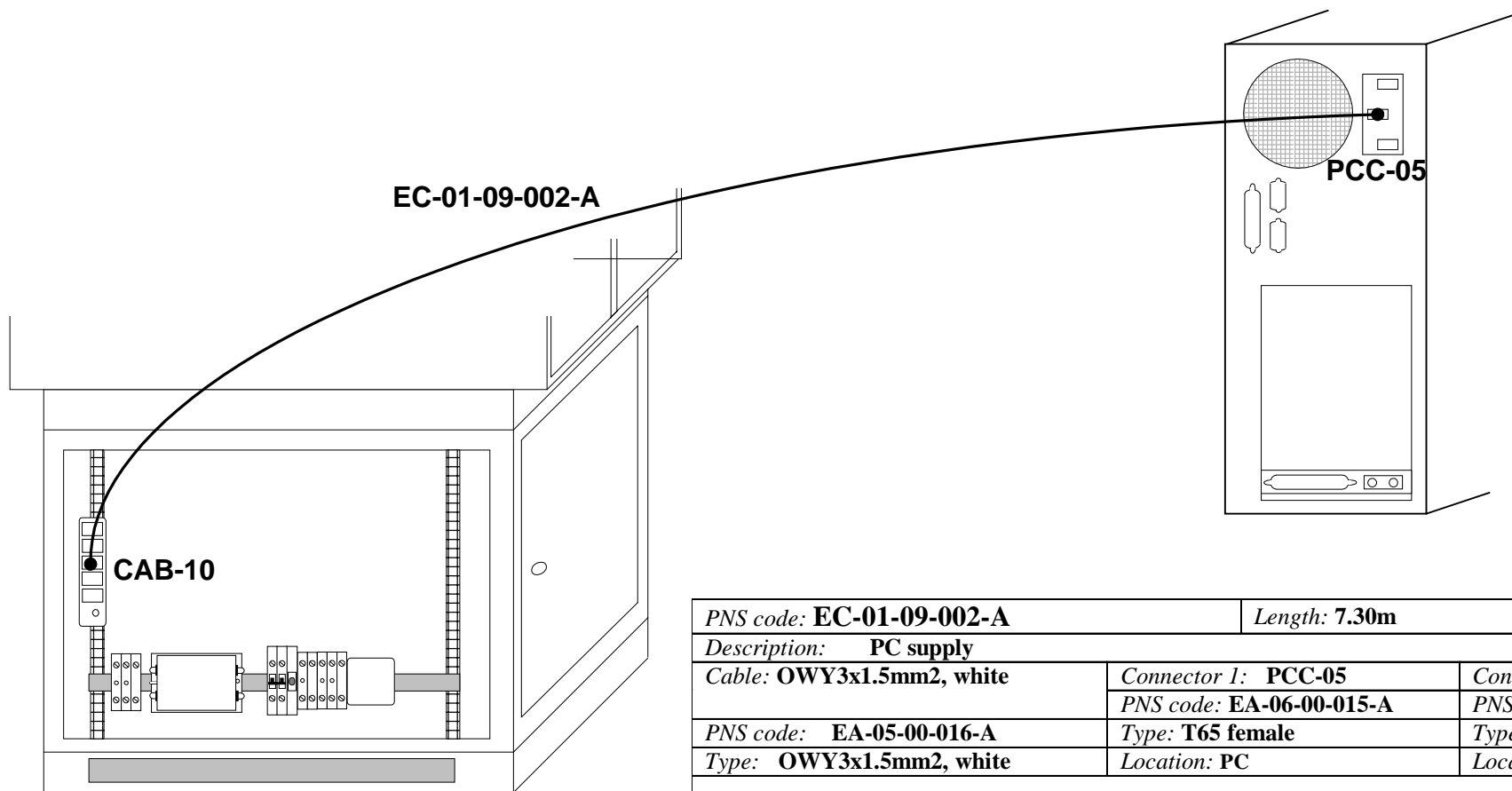


PNS code: EC-04-02-002-A		Length: 8.20m	Drg no.: EC-04-02-002-A
Description: FIP60 communication			
Cable: 18 x 0.14mm² shielded	Connector 1: INT-13		Connector 2: PCC-03
	PNS code: EA-06-00-005-A		PNS code: EA-06-00-005-A
PNS code: EA-05-00-013-A	Type: DB25 male		Type: DB25 male
Type: LiYCY18 x 0.14 shielded	Location: Interface – rear panel		Location: PC (FIP60)


					<div><div></div><div>oxford diffraction</div></div>	<div>TITLE:</div> <div>Xcalibur / Gemini</div> <div>FIP60 to Interface cable</div>		
					<div>DRG NO.</div> <div>EC-04-02-002-A</div>			
A. No.	B	C			<div>DRAWN BY:</div> <div>R. S.</div>			
Appr					<div>APPROVED BY:</div>	<div>DATE:</div> <div>06/07/2001</div>	<div>SHEET</div> <div>1 of 2</div>	
Date	Dec. 2002	04/2005						

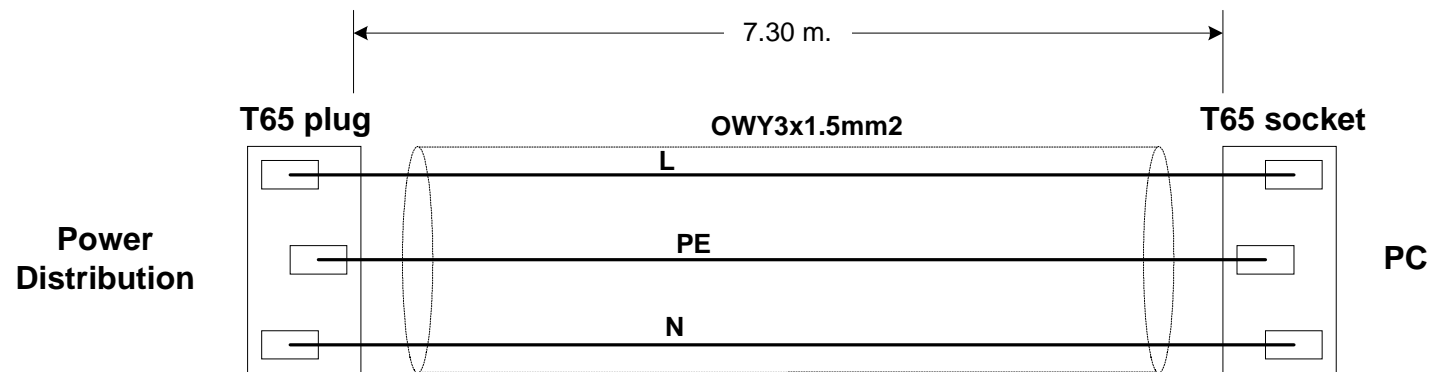



					 oxford diffraction DRG NO. EC-04-02-002-A	TITLE: Xcalibur / Gemini FIP60 to Interface cable	
<i>A. No.</i>	B	C				FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. C
<i>Appr</i>					DRAWN BY: R. S.		
<i>Date</i>	Dec. 2002	04/2005			APPROVED BY:	DATE: 04/07/2001	SHEET 2 of 2

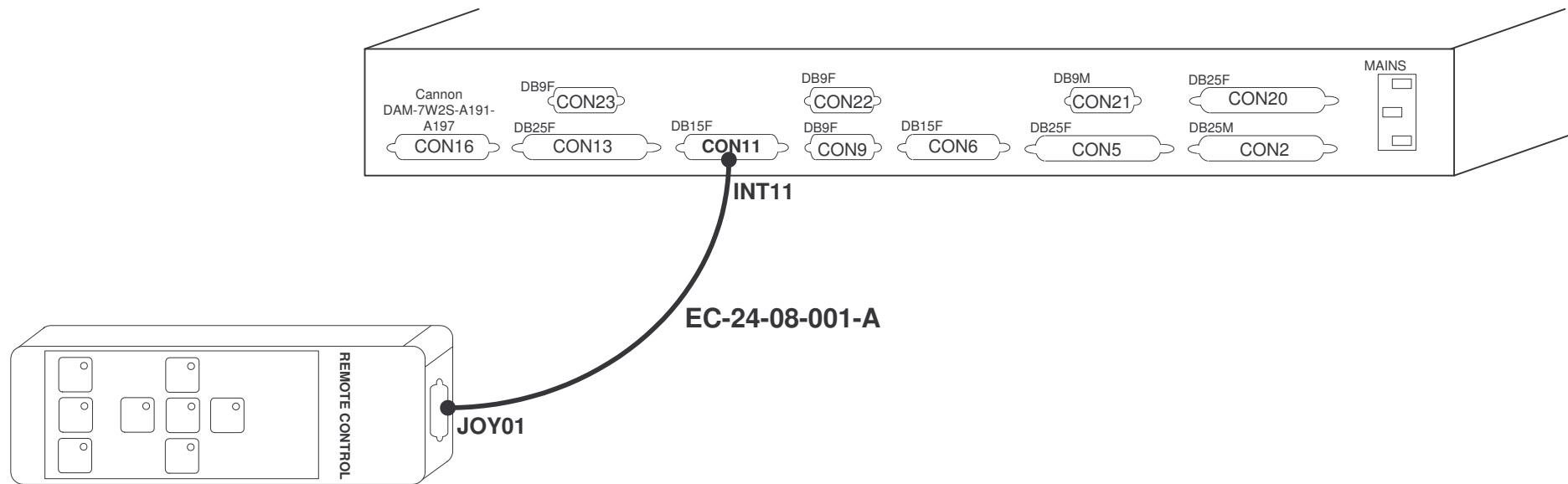


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<i>Description:</i> PC supply			
<i>Cable:</i> OWY3x1.5mm2, white	<i>Connector 1:</i> PCC-05	<i>Connector 2:</i> CAB-10	
	<i>PNS code:</i> EA-06-00-015-A	<i>PNS code:</i> EA-06-00-014-A	
<i>PNS code:</i> EA-05-00-016-A	<i>Type:</i> T65 female	<i>Type:</i> T65 male	
<i>Type:</i> OWY3x1.5mm2, white	<i>Location:</i> PC	<i>Location:</i> IEC plug inlet	


							PC	
					230VAC Supply cable			
<i>A. No.</i>	B				EC-01-09-002-A		<i>FILE:</i> \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	<i>REV.</i> B
<i>Appr</i>					<i>DRAWN BY:</i> R. S.			
<i>Date</i>	Dec. 2002				<i>APPROVED BY:</i>		<i>DATE:</i> 03/01/2002	<i>SHEET</i> 1 of 2

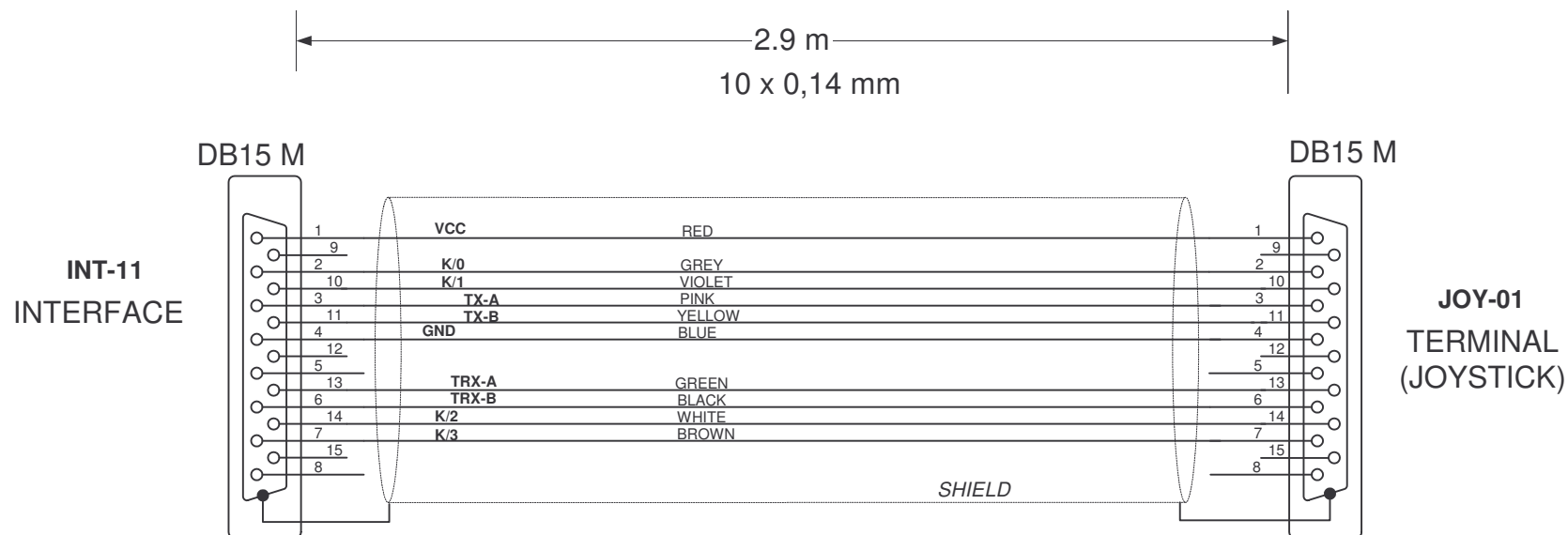



							PC	
					230VAC Supply cable			
					EC-01-09-002-A		B	
					R. S.			
							2 of 2	
<i>A. No.</i>	B							
<i>Appr</i>								
<i>Date</i>	Dec. 2002							



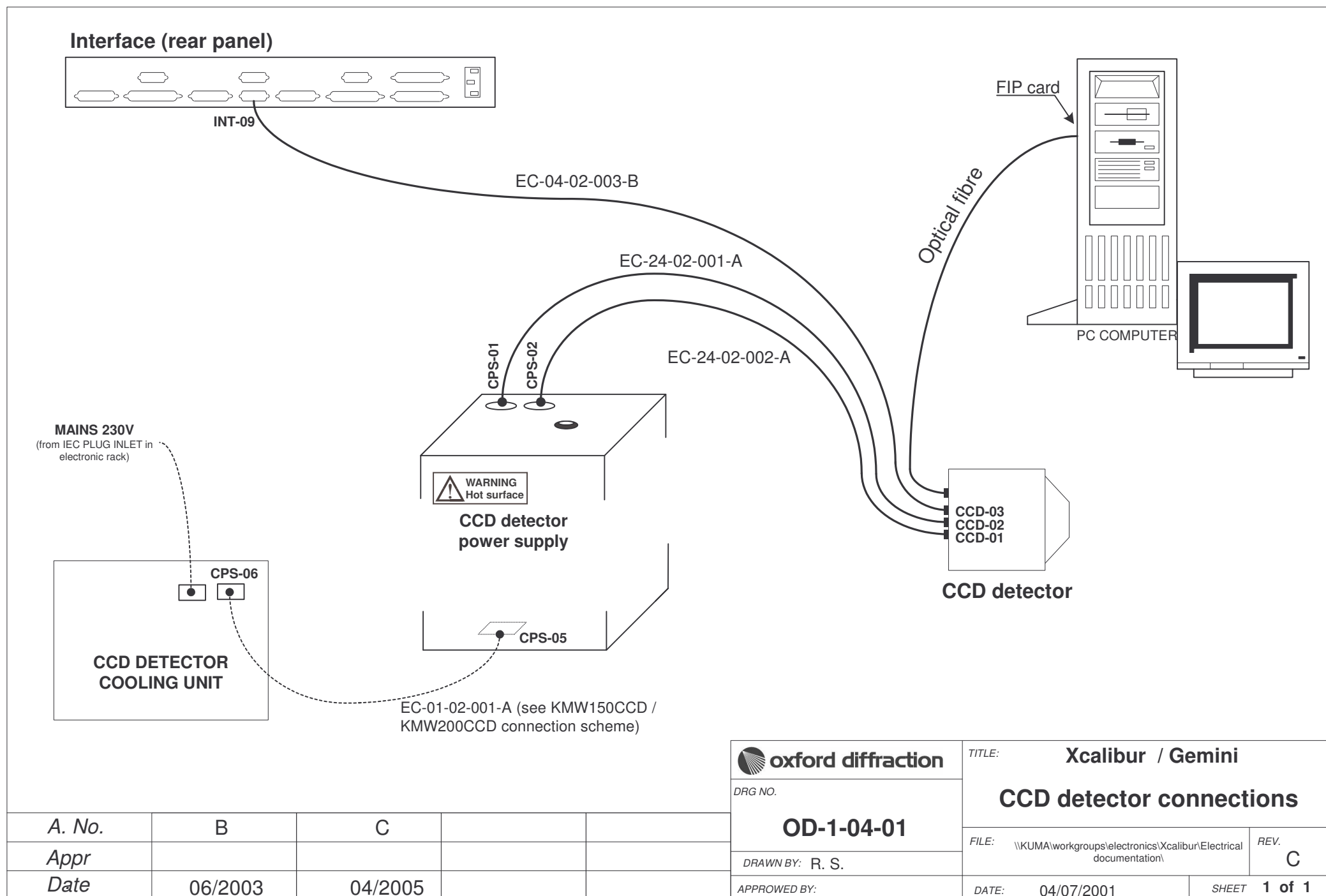
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Description:			
Cable: 10 x 0.14 mm2 shielded		Connector 1: INT-11	Connector 2: JOY-01
		PNS code: EA-06-00-003-A	PNS code: EA-06-00-003-A
PNS code: EA-05-00-004-A		Type: DB15 male	Type: DB15 male
Type: LiYCY10x0.14 shielded		Location: Interface – rear panel	Location: Terminal

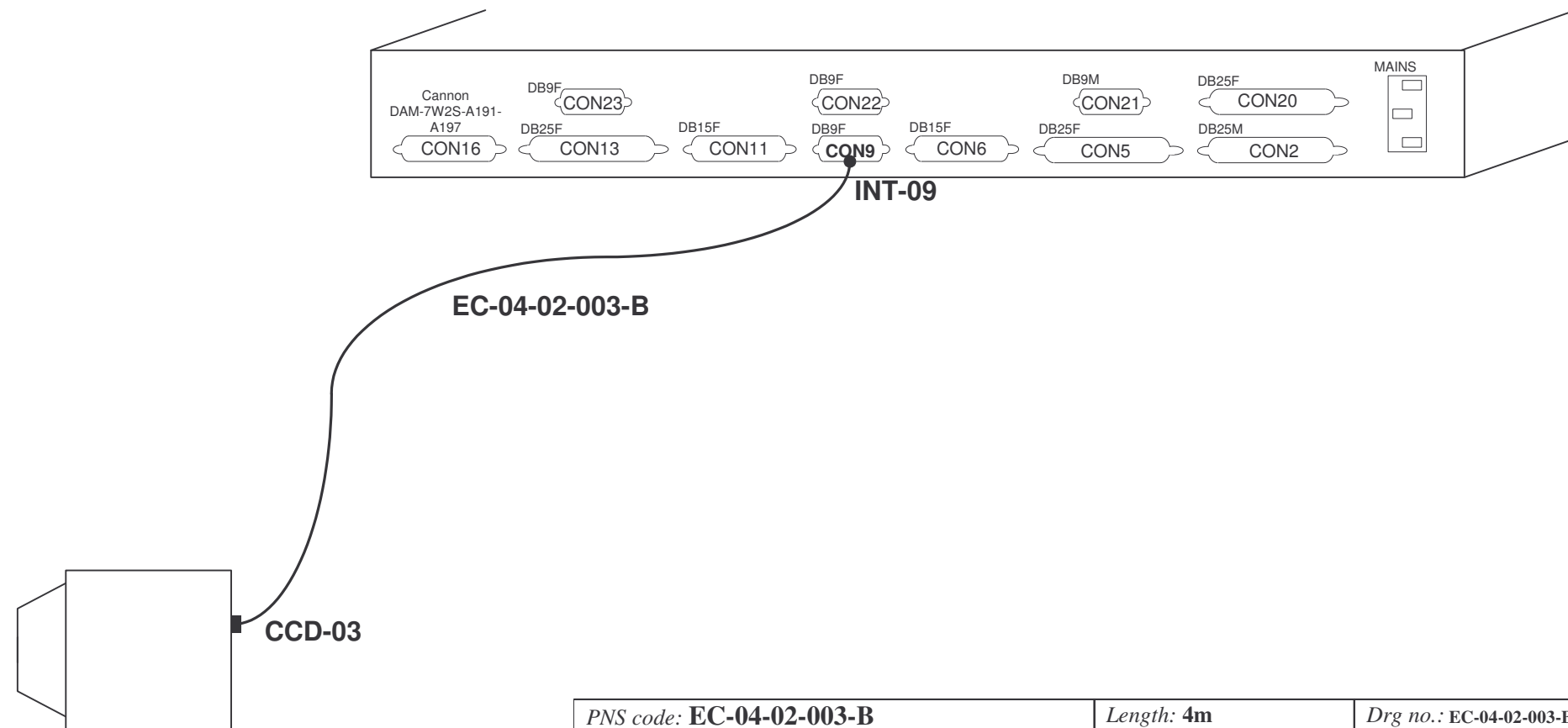
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A. No.	B	C						
Appr								
Date	05/2004	04/2005						



 oxford diffraction DRG NO.	TITLE: Xcalibur / Gemini		
	Remote control cable		
EC-24-08-001-A	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. C	
DRAWN BY: R. S.	DATE: 09/07/2001	SHEET 2 of 2	
APPROVED BY:			


A. No.	B	C		
Appr				
Date	05/2004	04/2005		

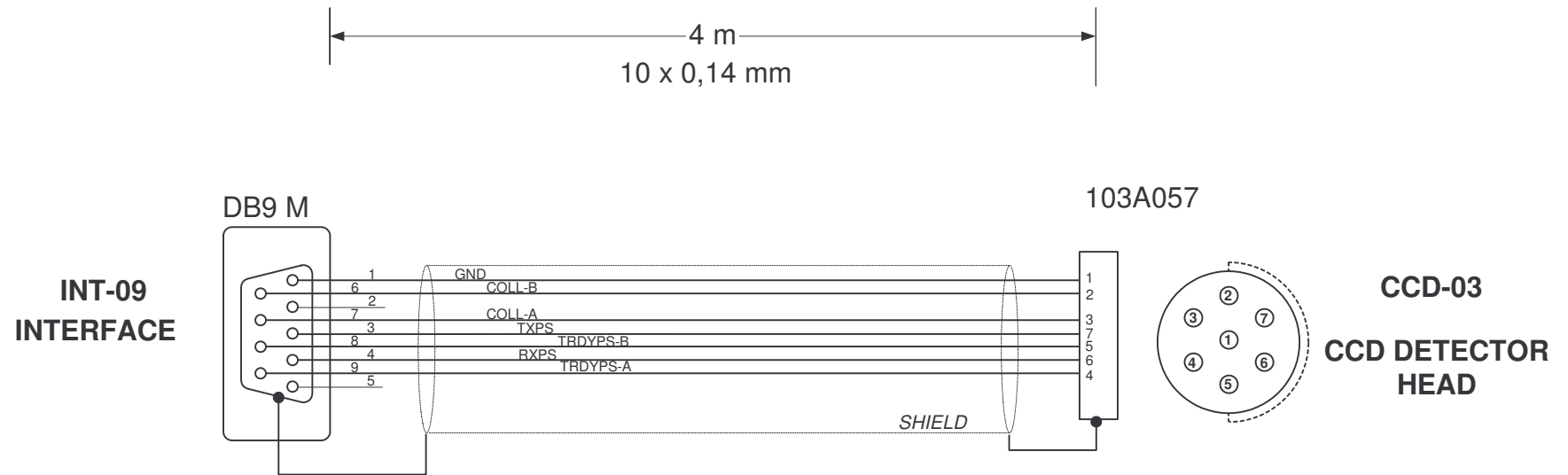





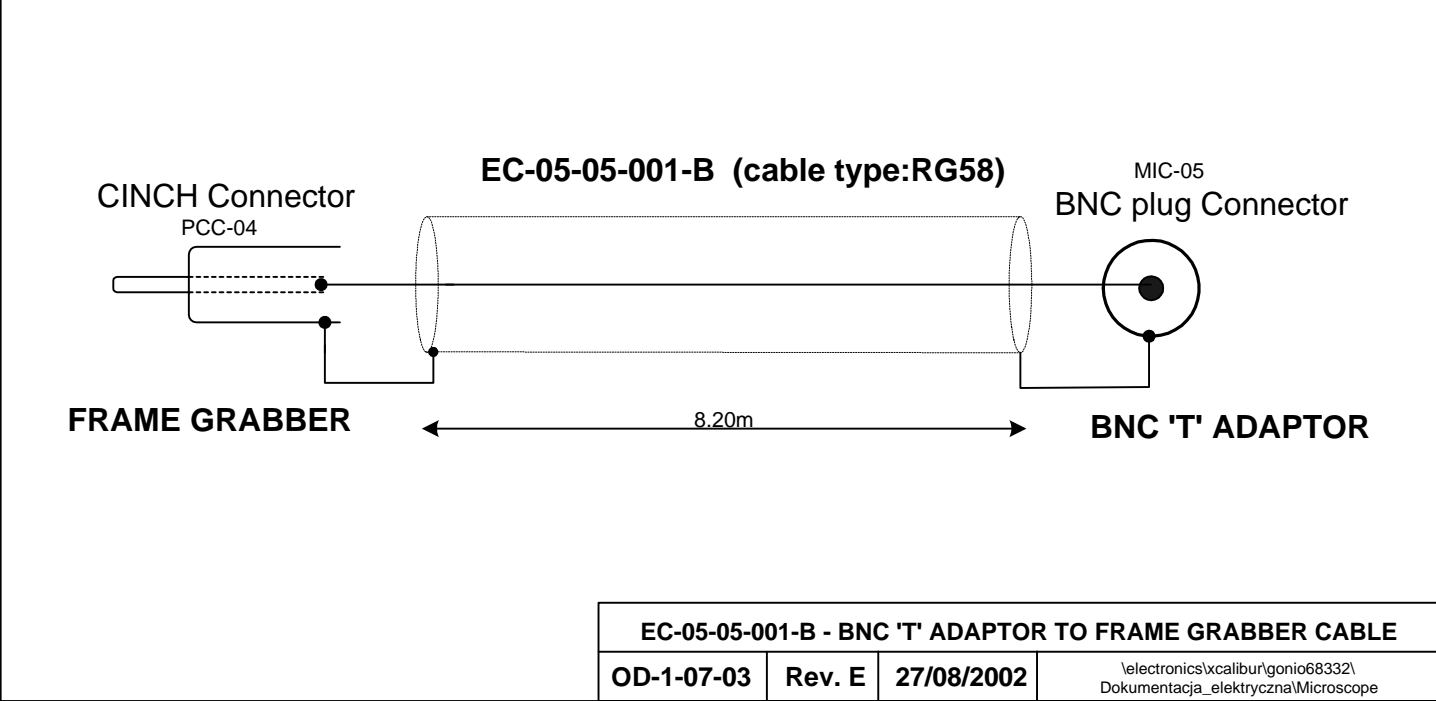
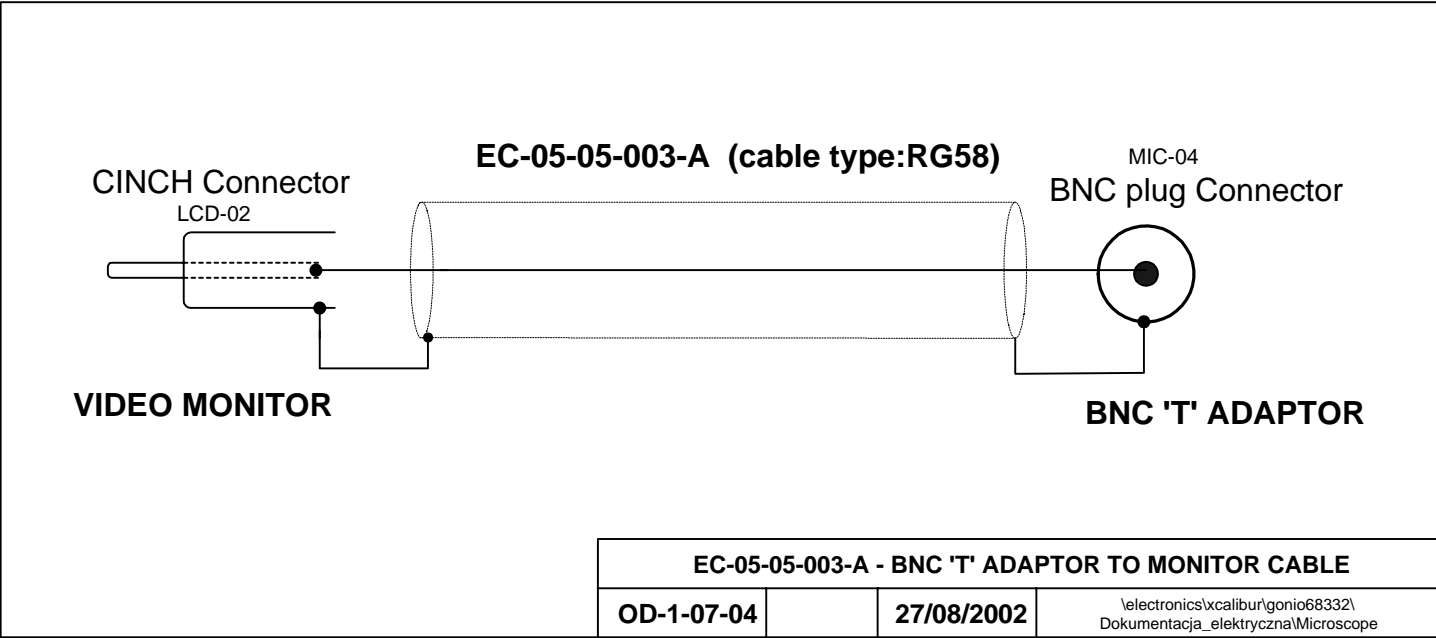
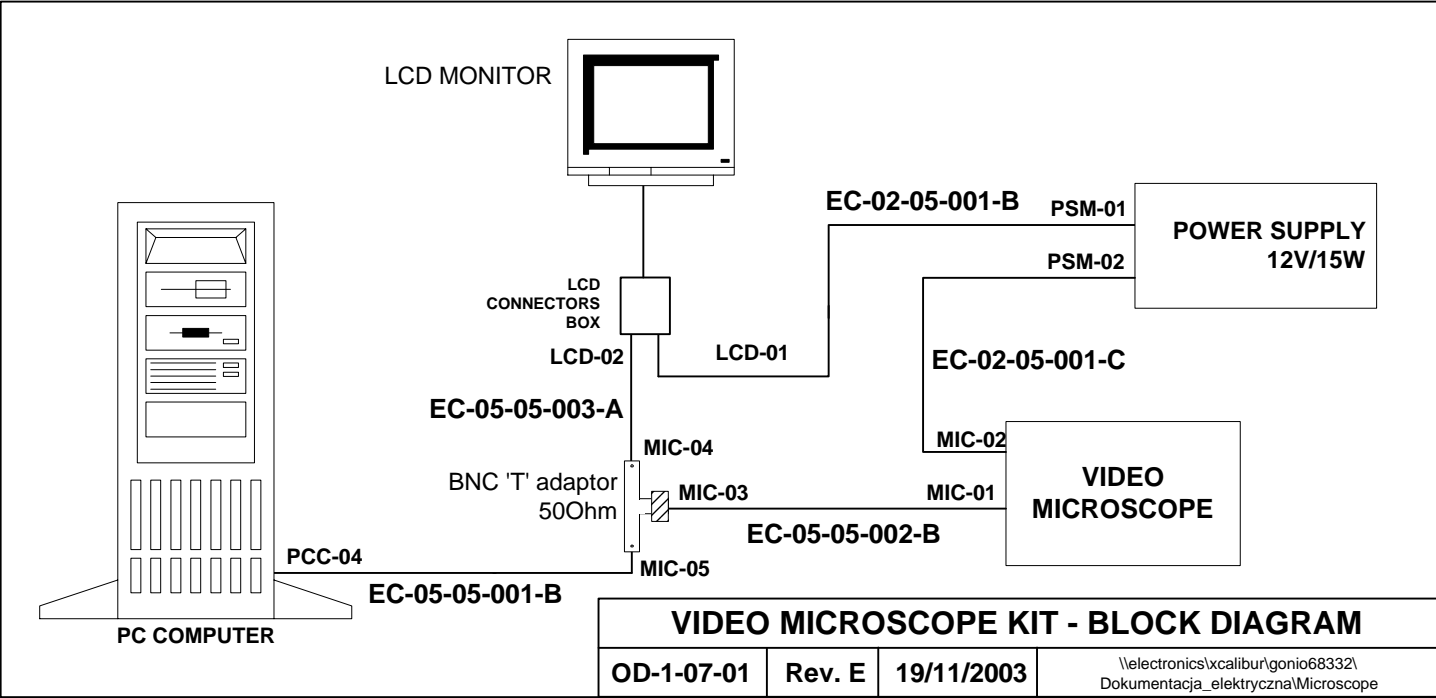
CCD DETECTOR HEAD

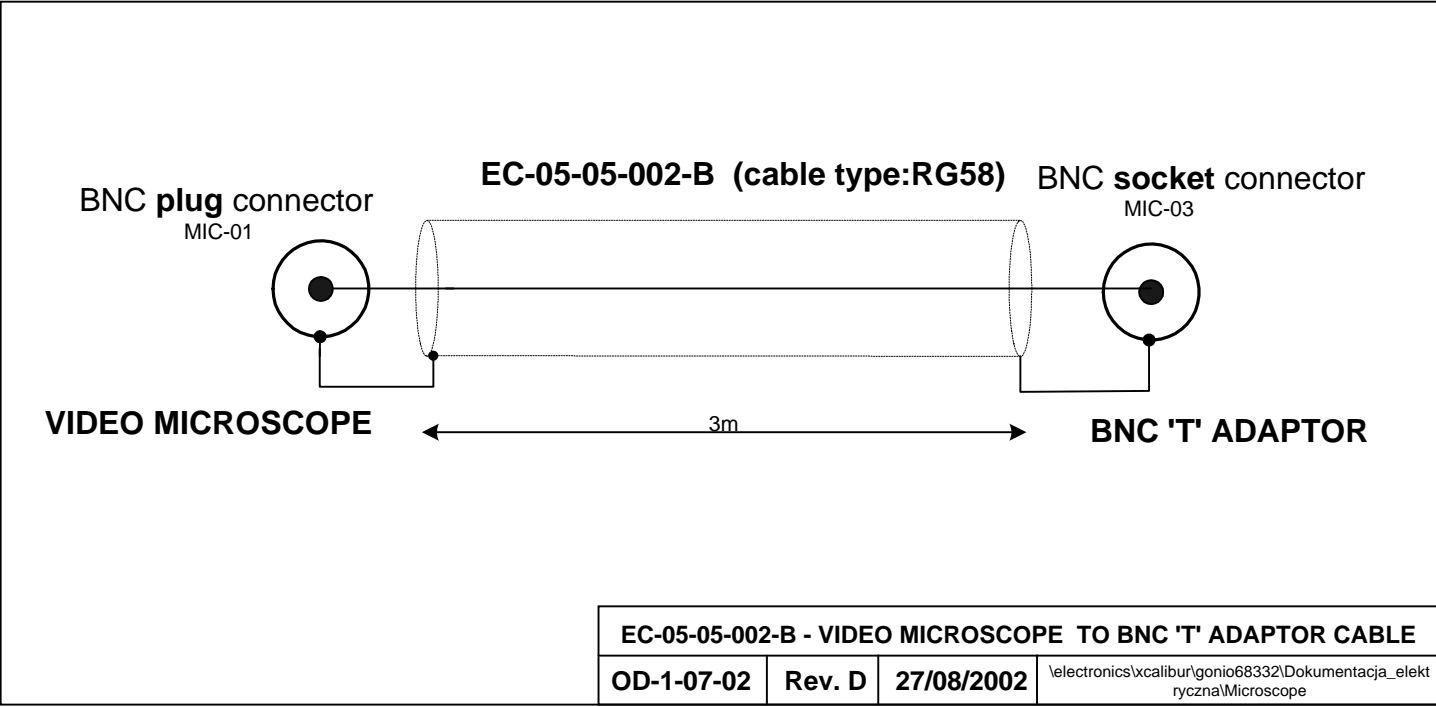
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Description: Temperature and collision			
Cable: 10 x 0.14mm2 shielded	Connector 1: INT-09		Connector 2: CCD-03
	PNS code: EA-06-00-001-A		PNS code: EA-06-00-037-A
PNS code: EA-05-00-004-A	Type: DB9 male		Type: 103A057
Type: LiYCY10 x 0.14 shielded	Location: Interface – rear panel		Location: CCD detector head

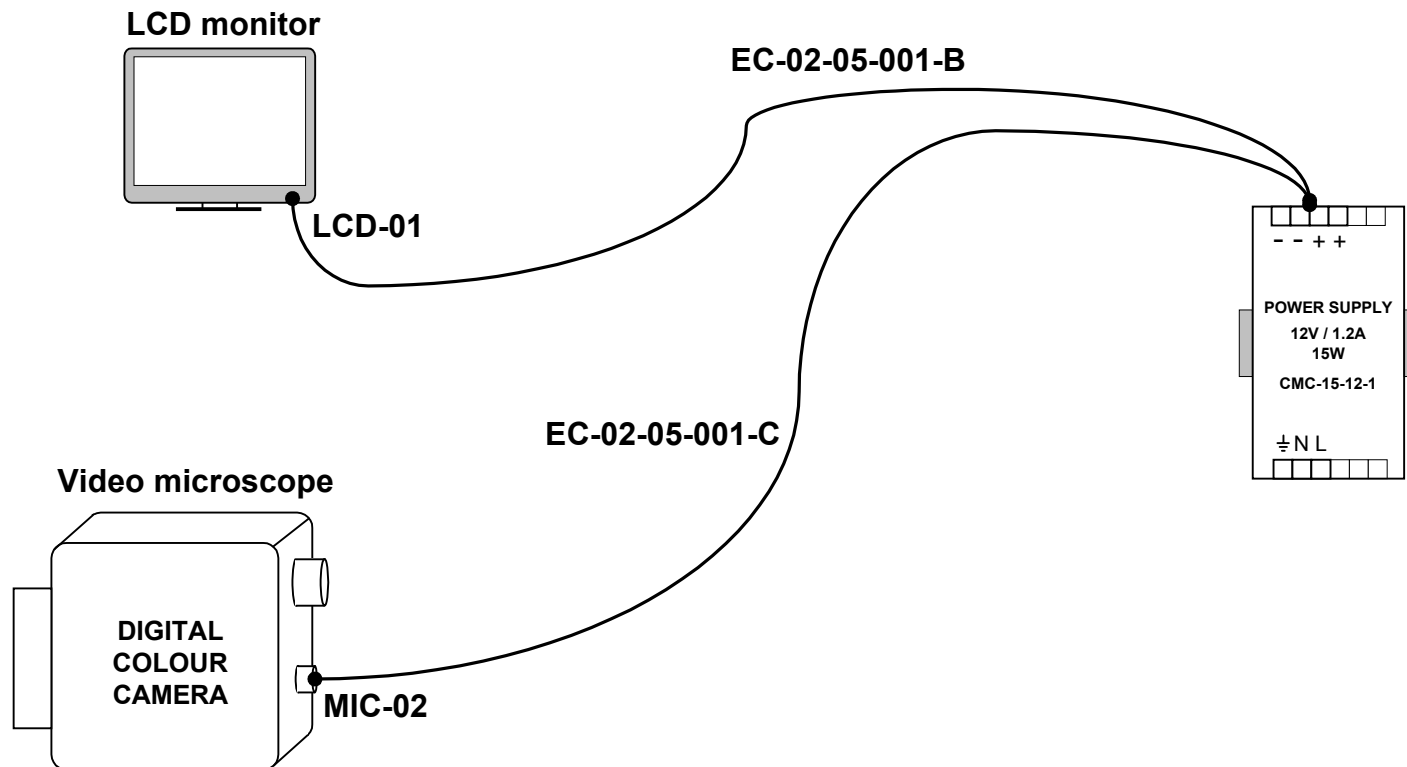
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A. No.	B						
Appr					DRAWN BY: R. S.	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\ REV. B	SHEET 1 of 2
Date	04/2005				APPROVED BY:		
						DATE: 06/2003	




					<div><div></div><div>oxford diffraction</div></div>	<div>TITLE:</div> <div>CCD detector - temperature and collision</div>		
					<div>DRG NO.</div> <div>EC-04-02-003-B</div>			
A. No.	B				<div>DRAWN BY:</div> <div>R. S.</div>	<div>FILE:</div> <div>\\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\</div>		<div>REV.</div> <div>B</div>
Appr					<div>APPROVED BY:</div>	<div>DATE:</div> <div>06/2003</div>		<div>SHEET</div> <div>2 of 2</div>
Date	04/2005							

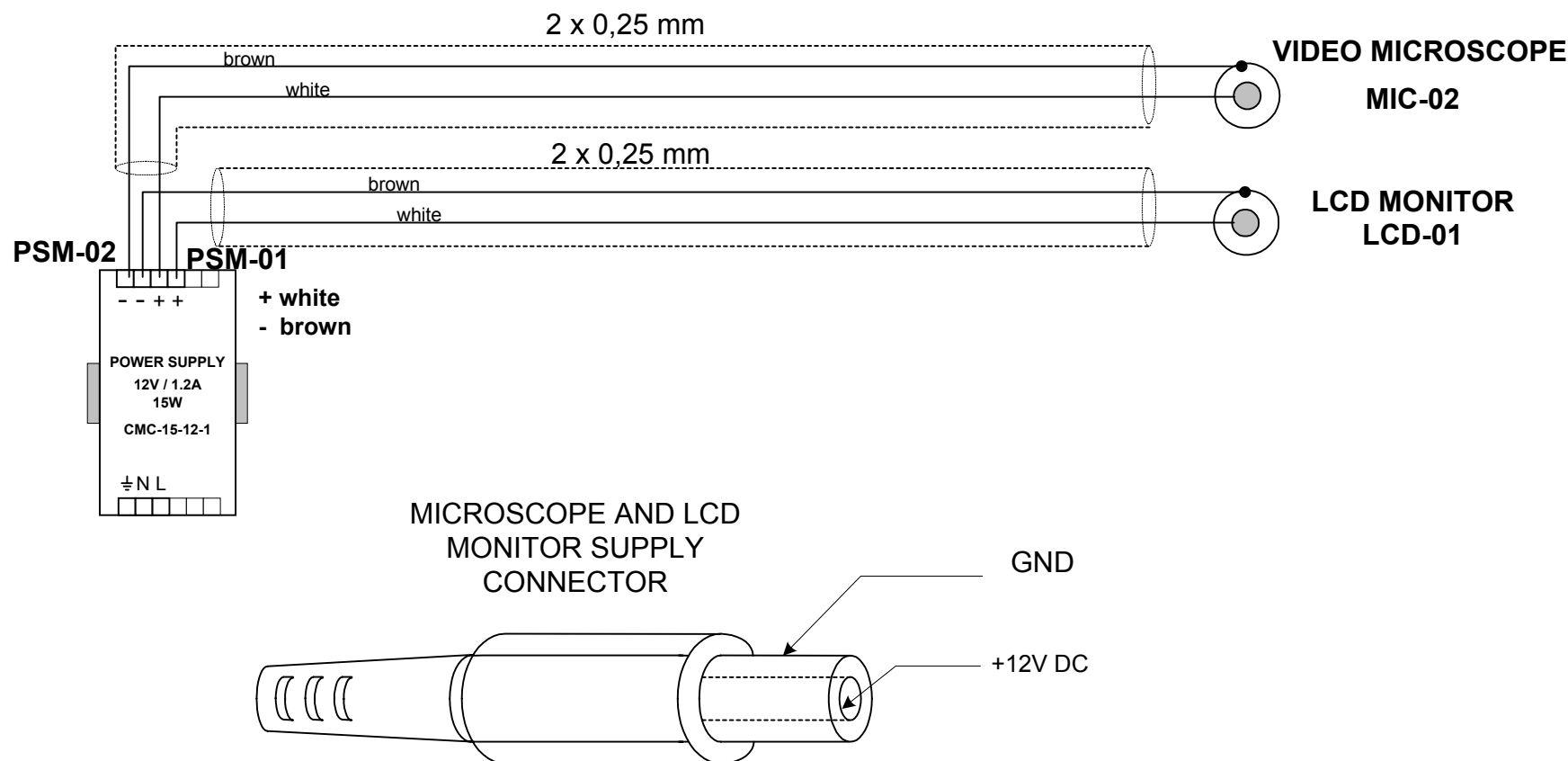





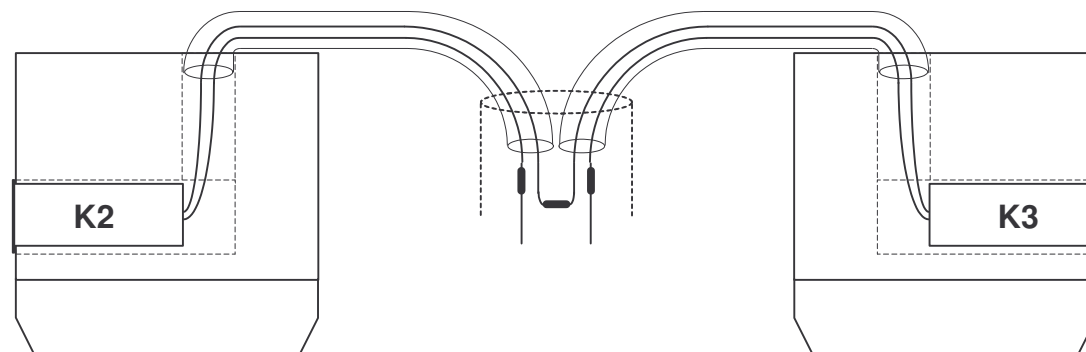
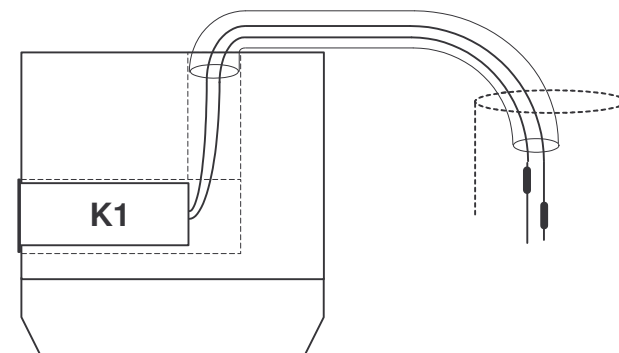
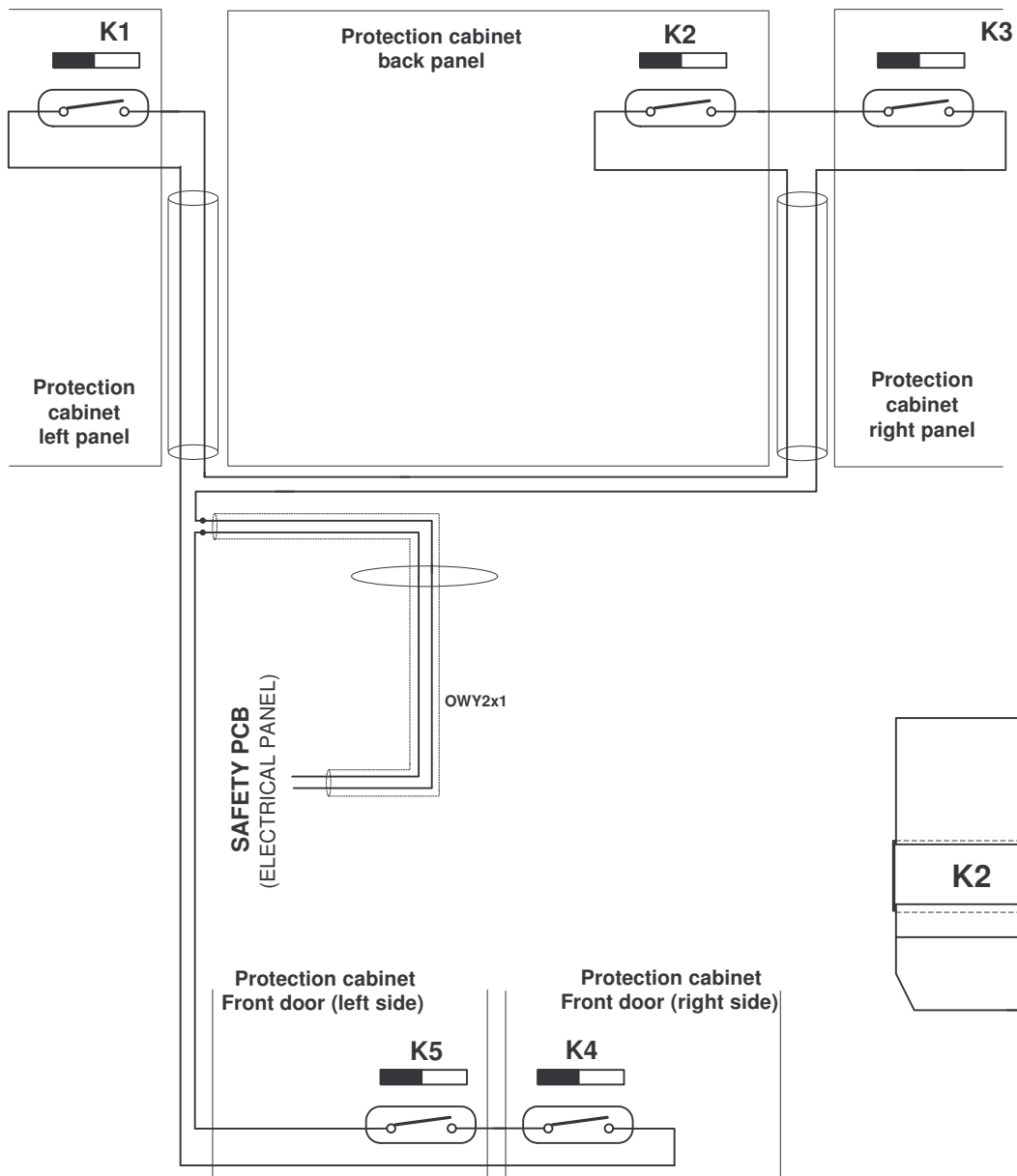



PNS code: EC-02-05-001-B, EC-02-05-001-C		Length: 2x1.2m	Drg no.: EC-02-05-001-B
Description: LCD monitor and video microscope supply			
Cable: 2 x 0.35mm2 shielded	Connector 1: PSM-01, PSM-02	Connector 2: MIC-02	Connector 3: LCD-01
	PNS code:	PNS code: EA-06-00-018-A	PNS code: EA-06-00-018-A
PNS code: EA-05-00-015-A	Type: screw connector	Type: T252	Type: T252
Type: LiYCY2x0.35mm2	Location: power supply	Location: Video microscope	Location: LCD monitor

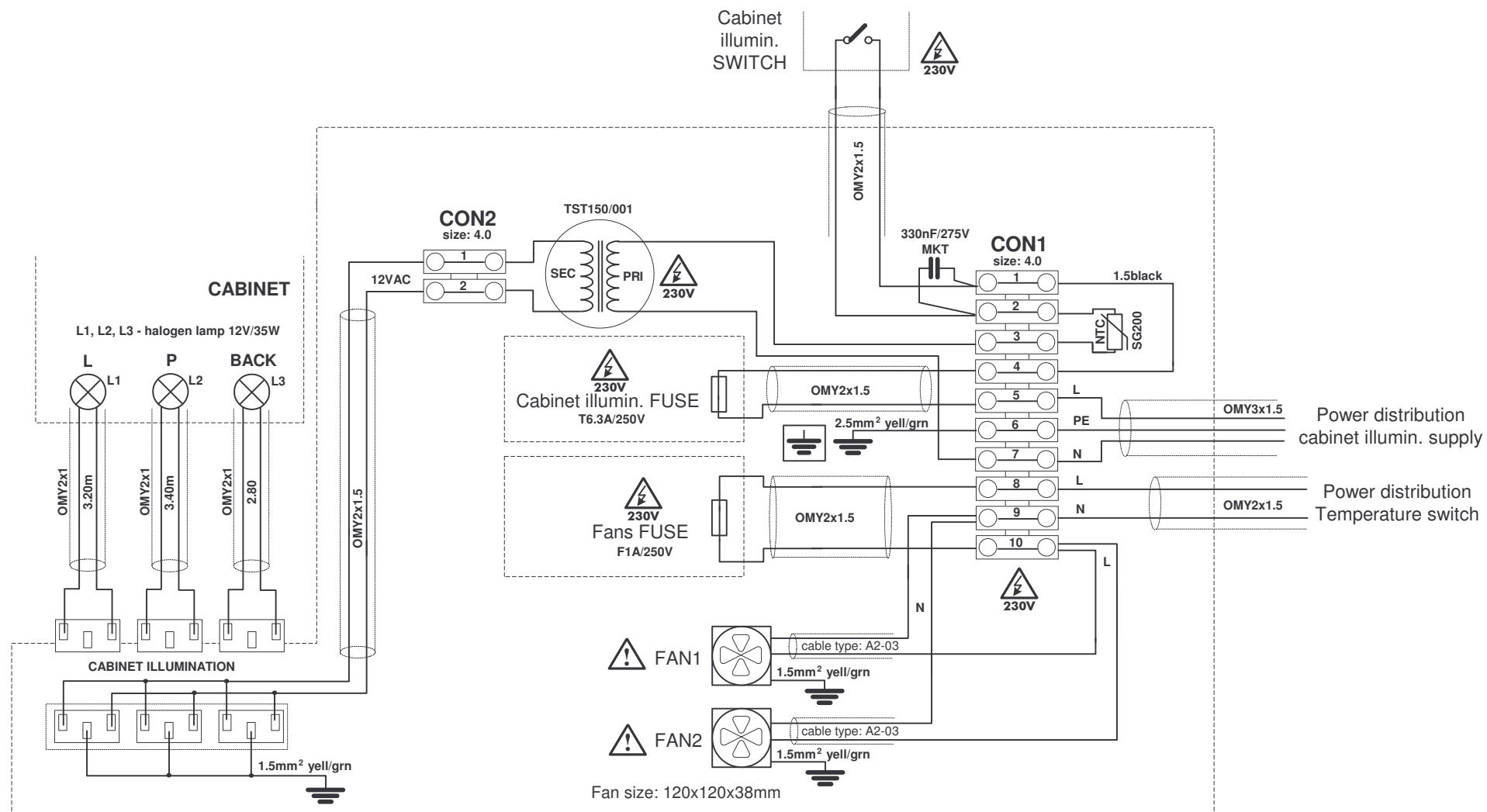
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					<i>DRG NO.</i> EC-02-05-001-B				
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					<i>APPROVED BY:</i>		<i>DATE:</i> 06/2003	<i>SHEET</i> 1 of 2	
<i>A. No.</i>									
<i>Appr</i>									
<i>Date</i>									



					 oxford diffraction	TITLE:	
					DRG NO.	LCD monior and video microscope power supply cable	
					EC-02-05-001-B		
					DRAWN BY: R. S.	FILE: \\KUMA\workgroups\electronics\gonio68332\cables	REV.
					APPROVED BY:	DATE: 06/2003	SHEET 2 of 2
A. No.							
Appr							
Date							



A. No.	B	C			 oxford diffraction DRG NO. EC-24-11-001-B DRAWN BY: R. S. APPROVED BY:	TITLE: Gemini Protection cabinet sensors		
Appr						FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. C	
Date	09/2003	04/2005				DATE: 09.2003	SHEET 1 of 1	



oxford diffraction

DRG NO.

EF-00-01-001-A

DRAWN BY: **R. S.**

APPROVED BY:

TITLE: **XCALIBUR / GEMINI**

FAN PANEL - electrical connection

FILE: \\KUMA\workgroups\electronics\calibur\electrica
I documentation\

REV. **B**

DATE: **08/2003**

SHEET **1 of 1**

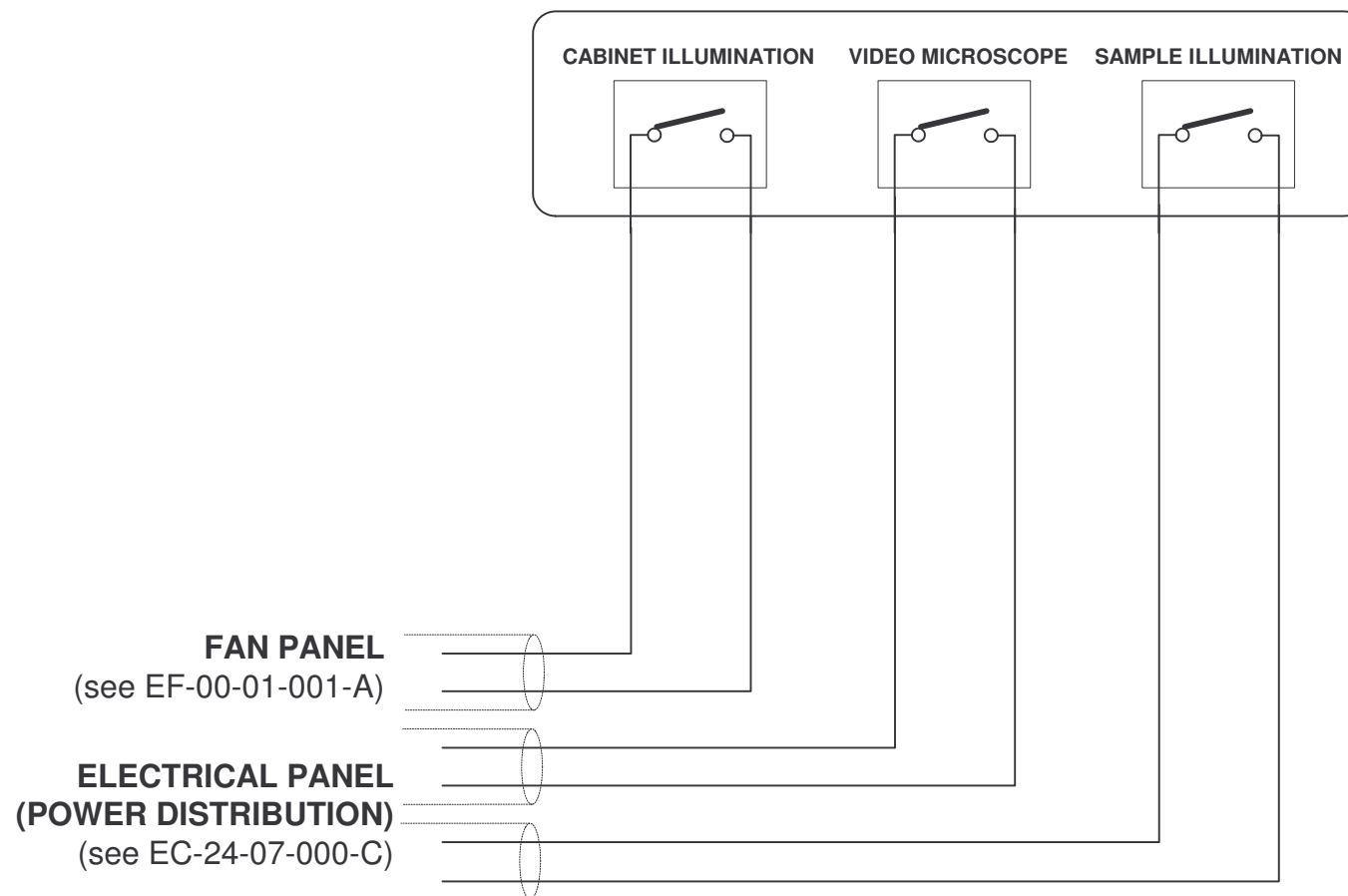
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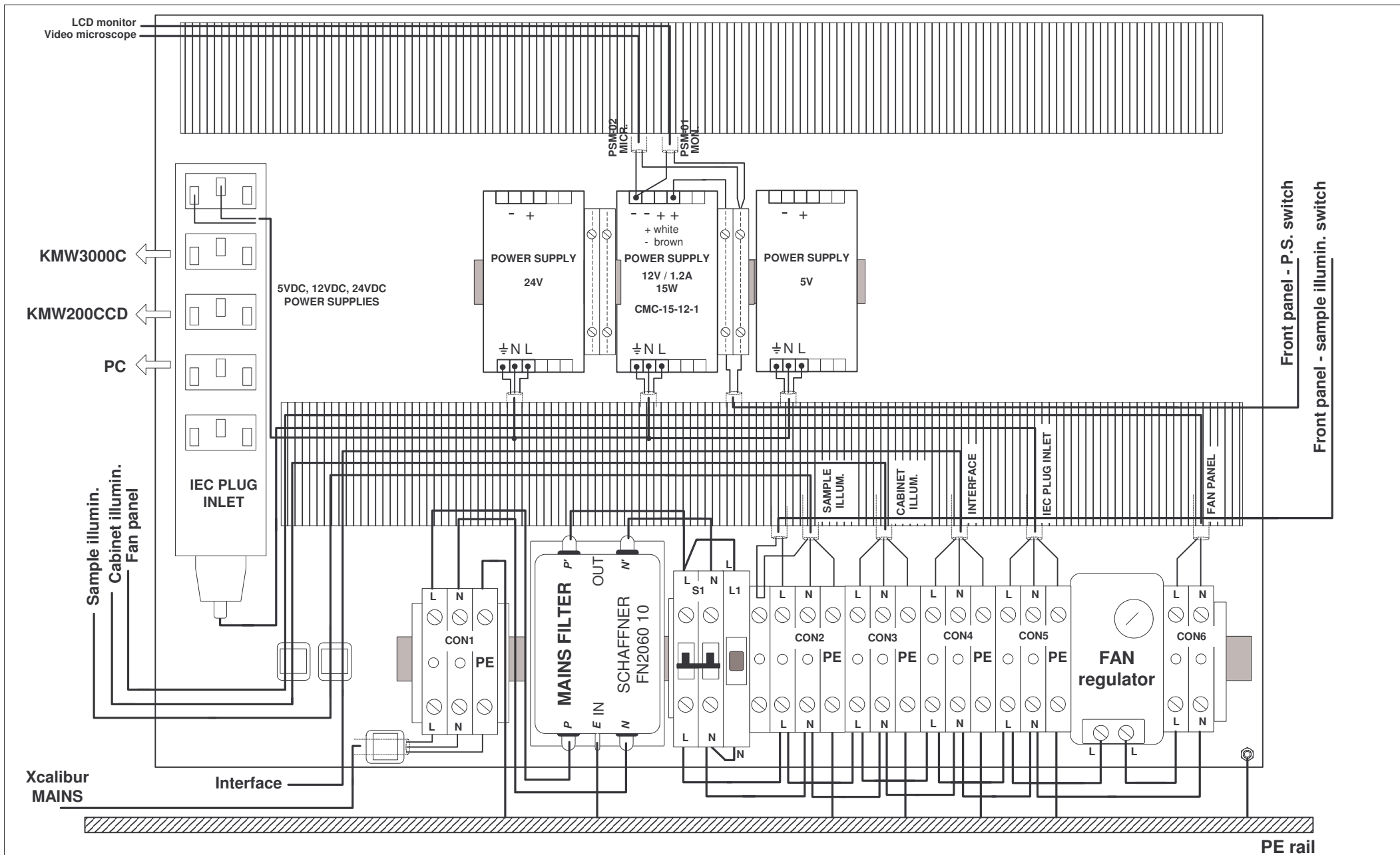
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Date

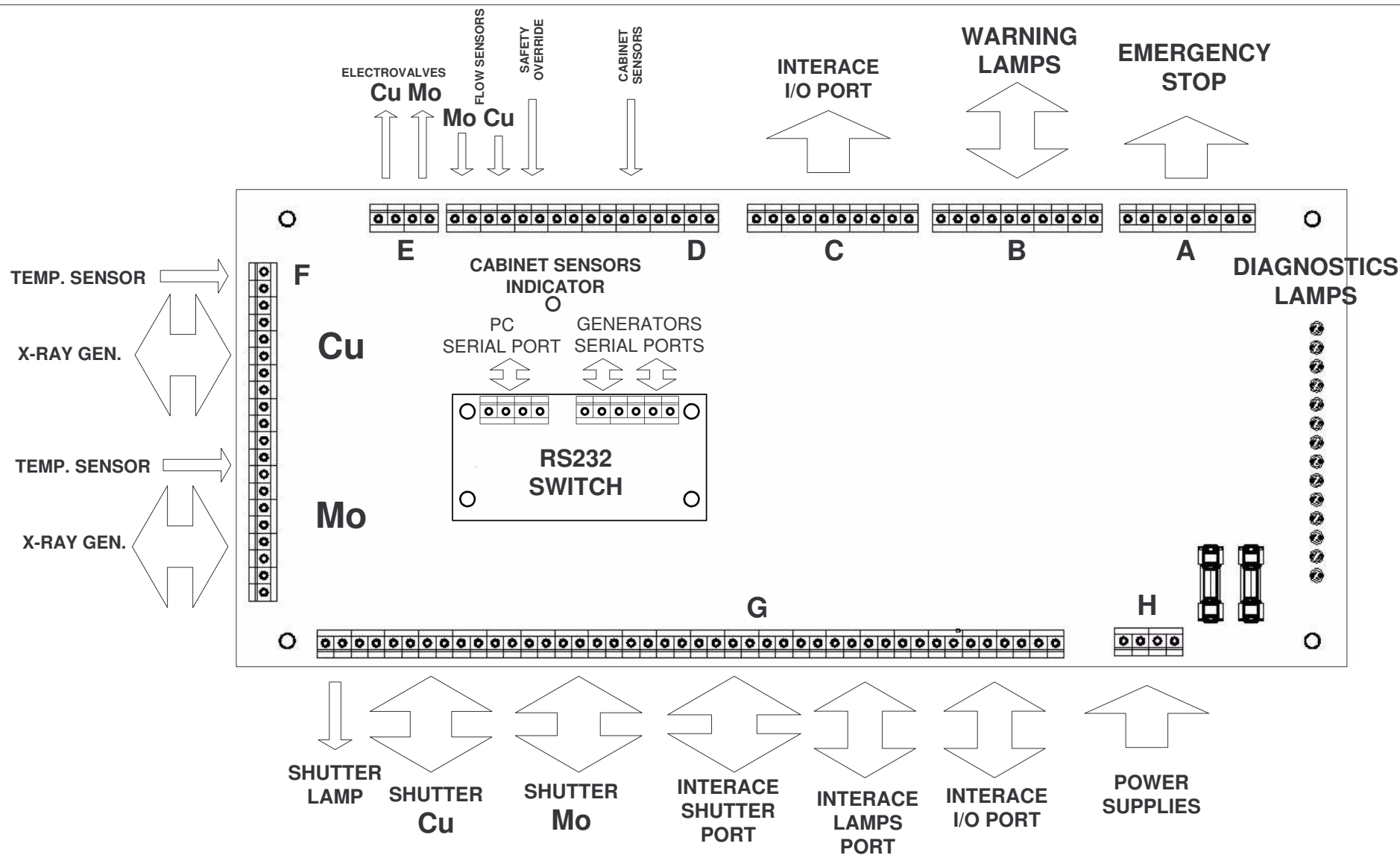
04/2005



A. No.	B				 oxford diffraction DRG NO. EC-24-07-010-A DRAWN BY: R. S. APPROVED BY:	TITLE: Gemini Front panel		
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Date	04/2005					DATE: 07.2003	SHEET 1 of 1	



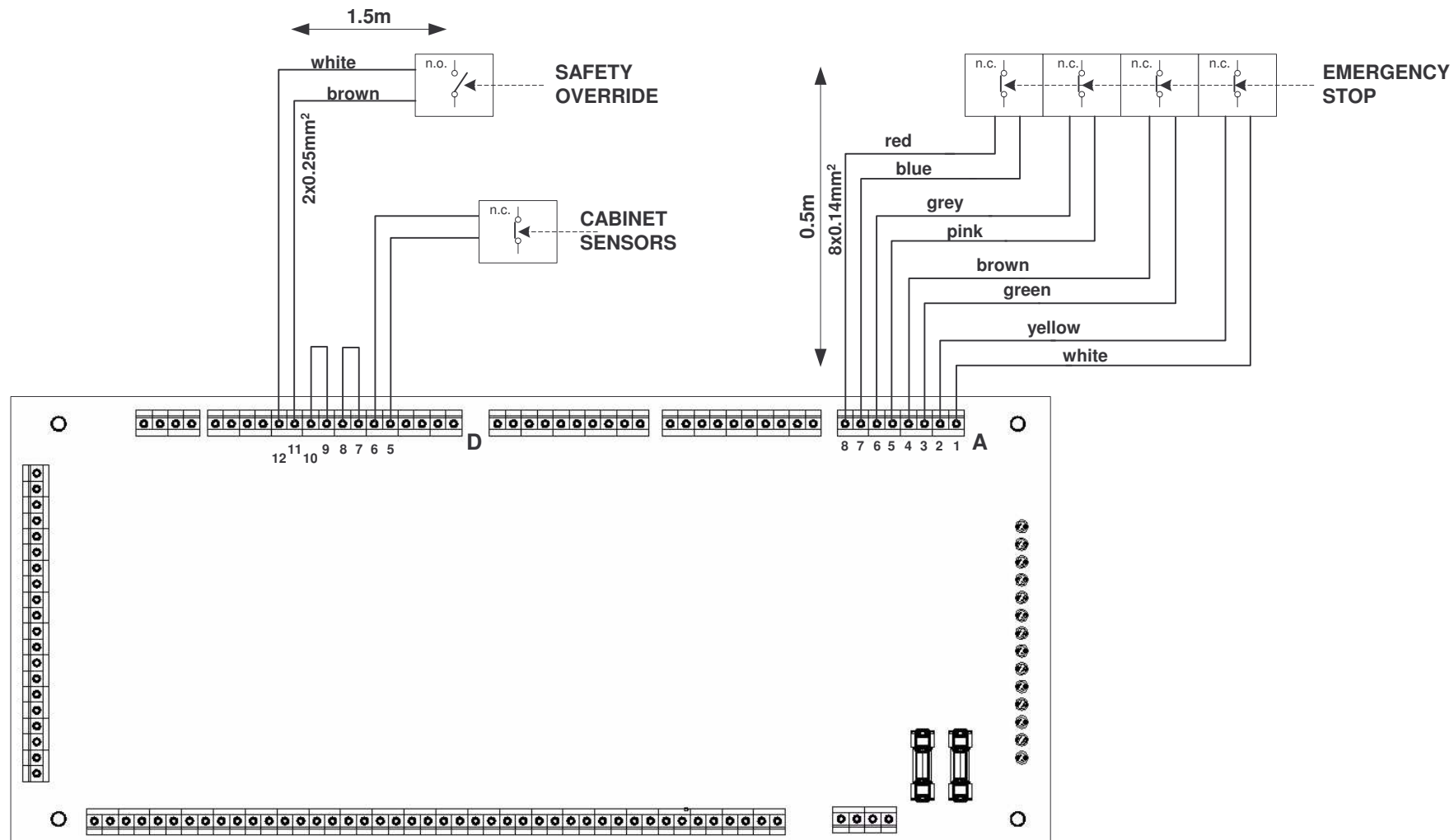
A. No.	B	D	E	 oxford diffraction	TITLE: GEMINI Electrical panel	
Appr				DRG NO. EC-24-07-000-A DRAWN BY: R. S. APPROVED BY:	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. E
Date	06/2003	09/2003	04/2005		DATE: 04.2003	SHEET 1 of 1



oxford diffraction	TITLE: GEMINI		
	PCB connections		
	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. A	
	DATE: 11.2004	SHEET 1 of 1	

A. No.				
Appr				
Date				

DRG NO.	EG-01-00-001-A
DRAWN BY:	R. S.
APPROVED BY:	



DRG NO.

EG-01-00-002-A

DRAWN BY: R. S.

APPROVED BY:

TITLE:

**GEMINI
PCB connections**

FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical
documentation\

REV.
B

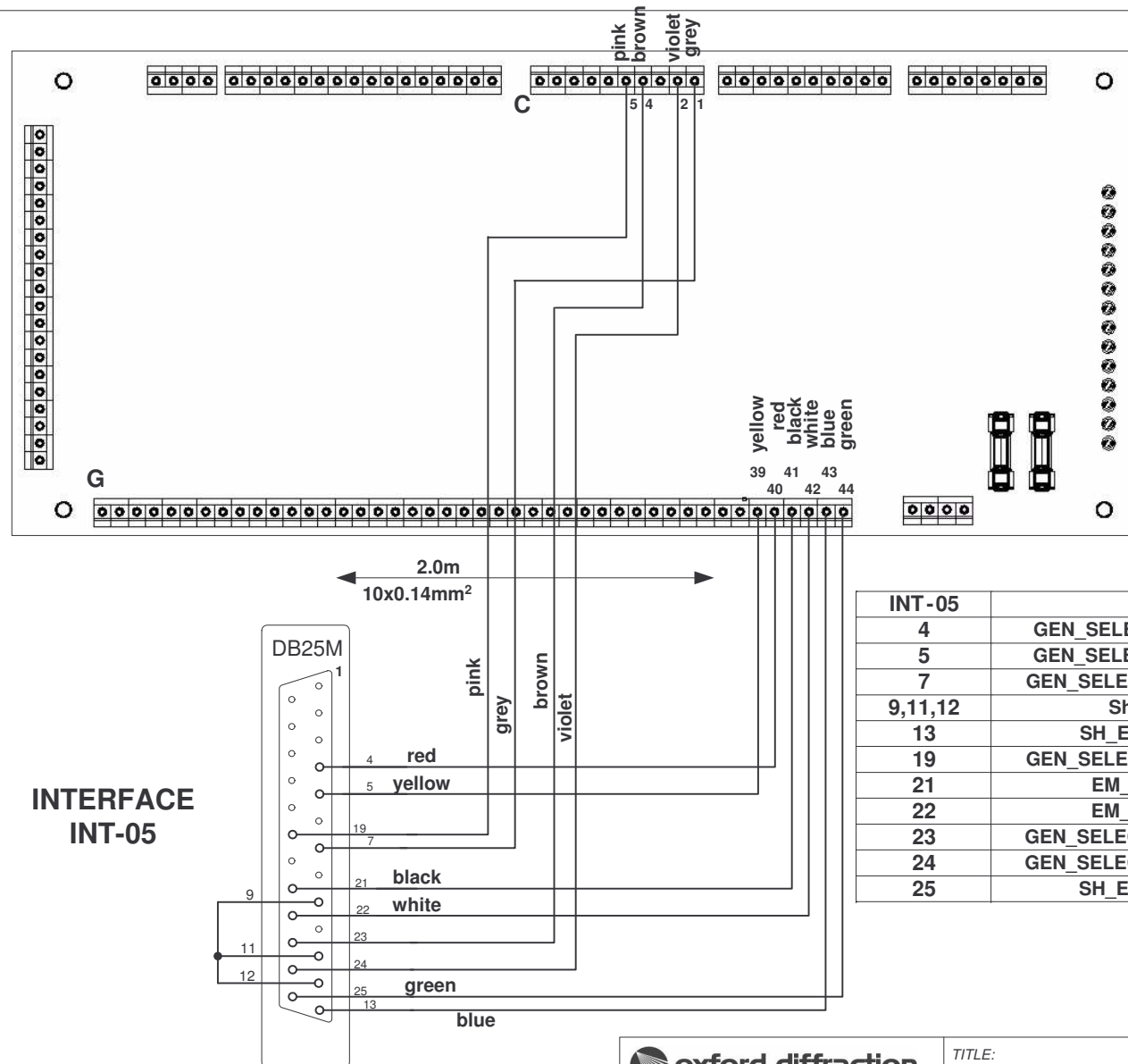
DATE: 11.2004

SHEET **1 of 1**


A. No.

Appr

Date



INT-05		PCB
4	GEN_SELECT - A (GPO1)	G-40
5	GEN_SELECT - B (GPO1)	G-39
7	GEN_SELECT_ACK1 - GND	C-1
9,11,12	Shortcut	
13	SH_ENABLE -A	G-43
19	GEN_SELECT_ACK2 - GND	C-5
21	EM_STOP -A	G-41
22	EM_STOP -B	G-42
23	GEN_SELECT_ACK2 - GPI2	C-4
24	GEN_SELECT_ACK1 - GPI1	C-2
25	SH_ENABLE -B	G-44

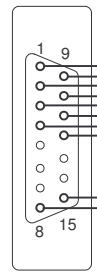
 oxford diffraction DRG NO. EG-01-00-003-A	TITLE: GEMINI PCB connections	
	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. A
	DRAWN BY: R. S. APPROVED BY:	DATE: 11.2004 SHEET 1 of 1

A. No.				
Appr				
Date				

1-white
9 - green
2 - grey
10 - pink
3 - brown
11 - yellow
4 - blue
12 - red

8 - violet
15 - black

WARNING
LAMPS

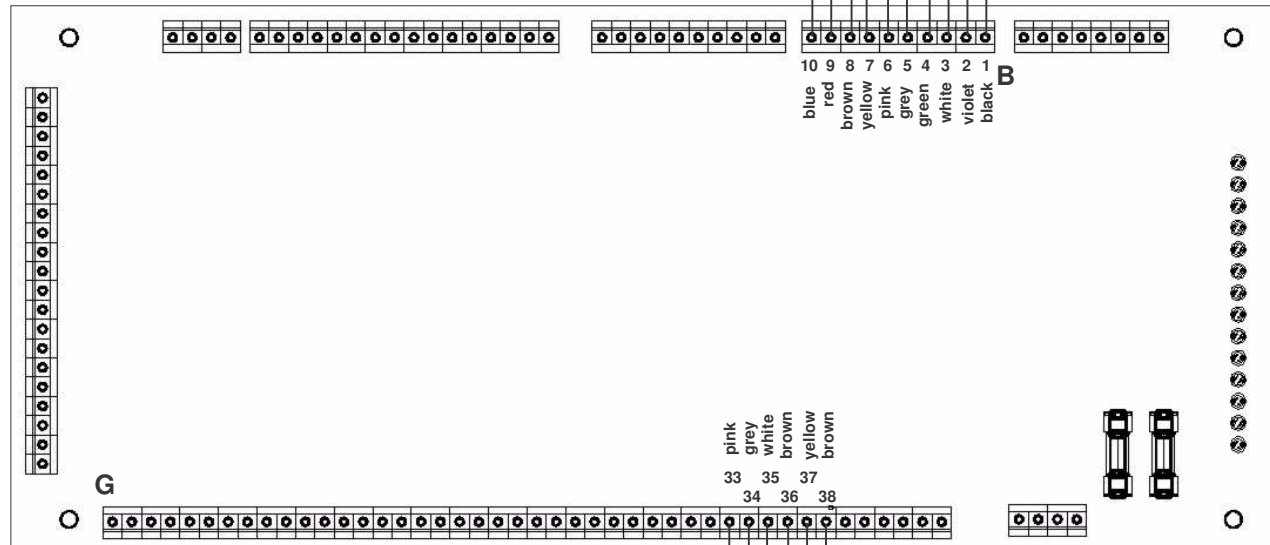


DB15 M

10x0.14mm²

4.20m

PCB		WARNING LAMPS (DB15)
B-1	SAFETY -A	15
B-2	SAFETY -B	8
B-3	SH.CLOSED LAMP -	1
B-4	SH.CLOSED LAMP+	9
B-5	SH.OPEN LAMP -	2
B-6	SH.OPEN LAMP+	10
B-7	Cu LAMP +	11
B-8	Cu LAMP-	3
B-9	Mo LAMP+	12
B-10	Mo LAMP -	4



	INT-21		PCB
pink	1	SAFETY -A	G-33
grey	2	SAFETY -B	G-34
brown	6	+VCC	G-36, G-38
yellow	7	- REDLAMP	G-37
white	8	- GRNLAMP	G-35

INTERFACE
INT-21

DB9F



2.10m

6x0.14mm²



DRG NO.

EG-01-00-004-A

DRAWN BY: R. S.

APPROVED BY:

TITLE:

GEMINI
PCB connections

FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\

REV.
A

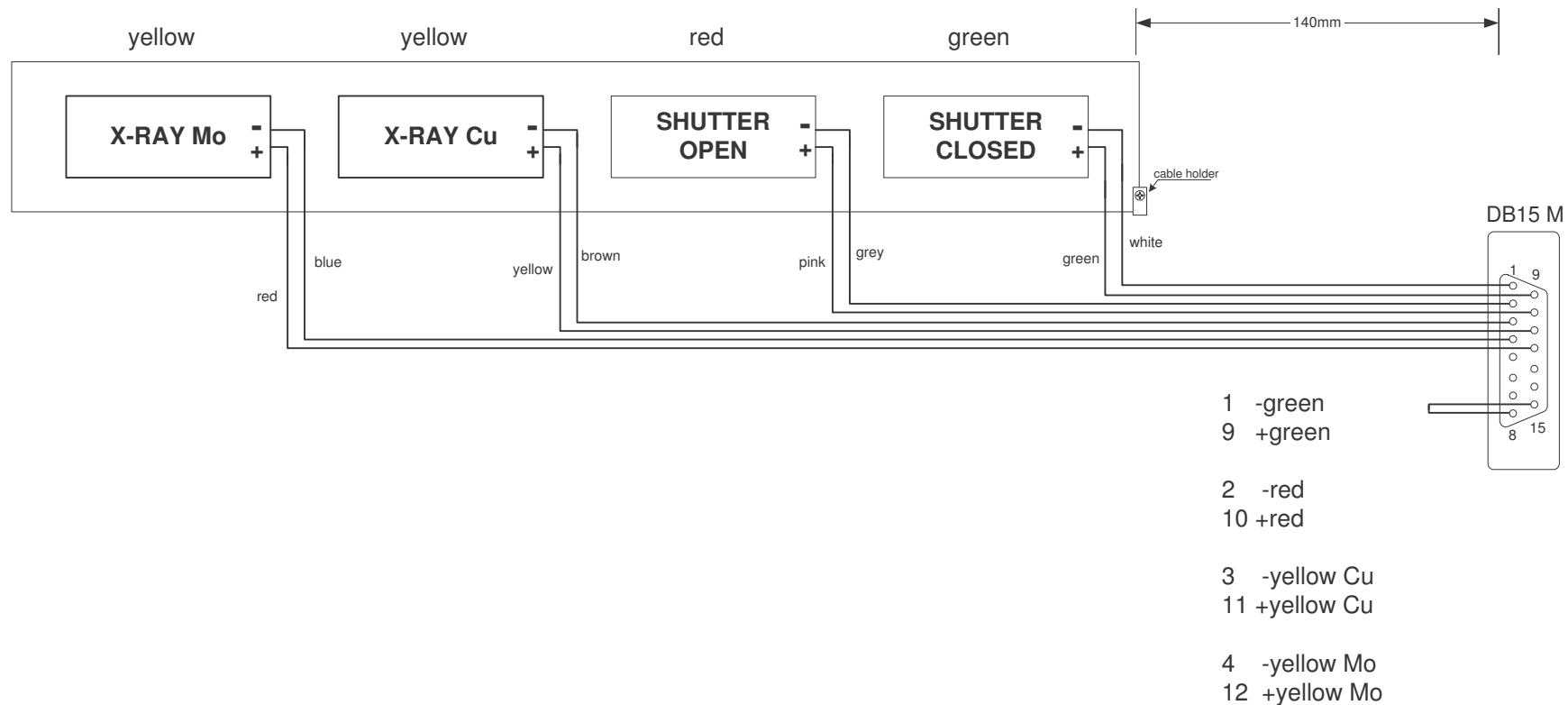
DATE: 11.2004


SHEET **1 of 1**

A. No.

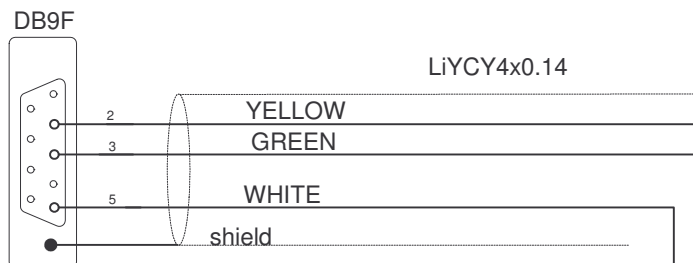
Appr

Date

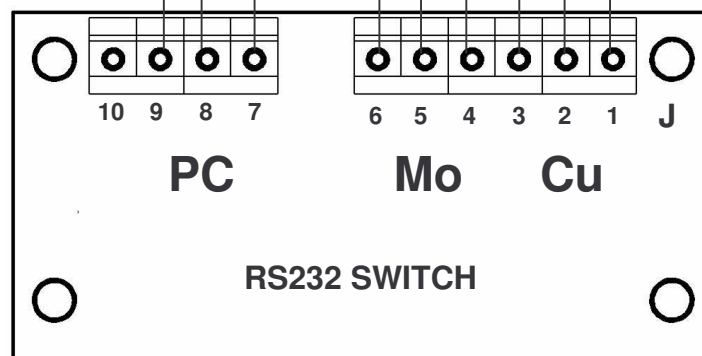


					<div><div></div><div>oxford diffraction</div></div>	<div>TITLE:</div> <div>GEMINI</div> <div>Warning lamps</div>		
					<div>DRG NO.</div> <div>EG-01-00-005-A</div>			
A. No.						FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\		REV. A
Appr					DRAWN BY: R. S.			
Date					APPROVED BY:	DATE: 11.2004	SHEET	1 of 1

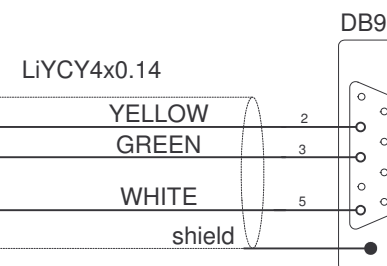
**PC
RS232 PORT**



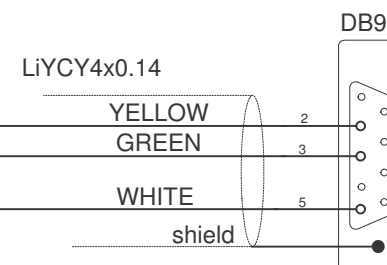
	SERIAL PORT		PCB
PC	2		J-8
	3		J-7
	5	GND	J-9
X-RAY GENERATOR Cu	2		J-1
	3		J-2
	5	GND	J-3
X-RAY GENERATOR Mo	2		J-4
	3		J-5
	5	GND	J-6



**Mo
X-RAY
GENERATOR 2
RS232 PORT**



**Cu
X-RAY
GENERATOR 1
RS232 PORT**



DRG NO.

EG-01-00-006-A

DRAWN BY: R. S.

APPROVED BY:

TITLE:

**GEMINI
PCB connections**

FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical
documentation\

REV.

A

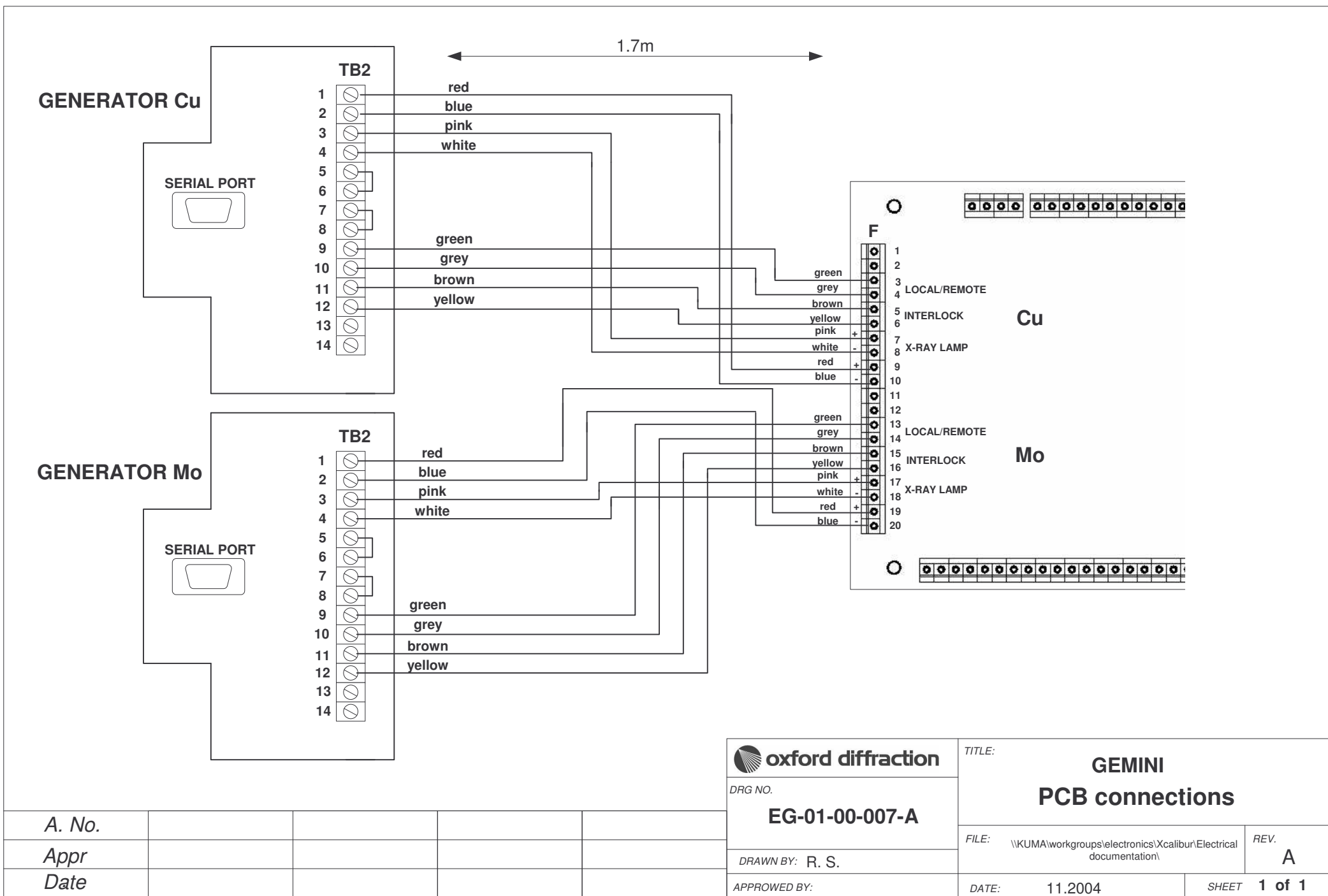
DATE: 11.2004

SHEET **1 of 1**

A. No.

Appr

Date



DRG NO.

EG-01-00-007-A

DRAWN BY: R. S.

APPROVED BY:

TITLE:

**GEMINI
PCB connections**

FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical
documentation\

REV.

A

DATE: 11.2004

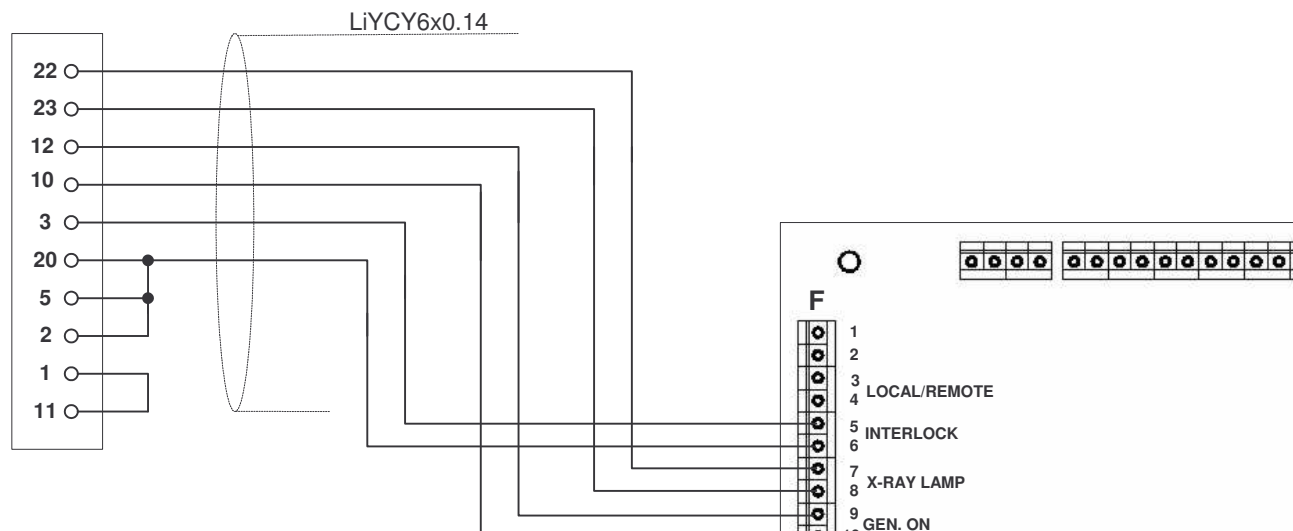
SHEET **1 of 1**

A. No.

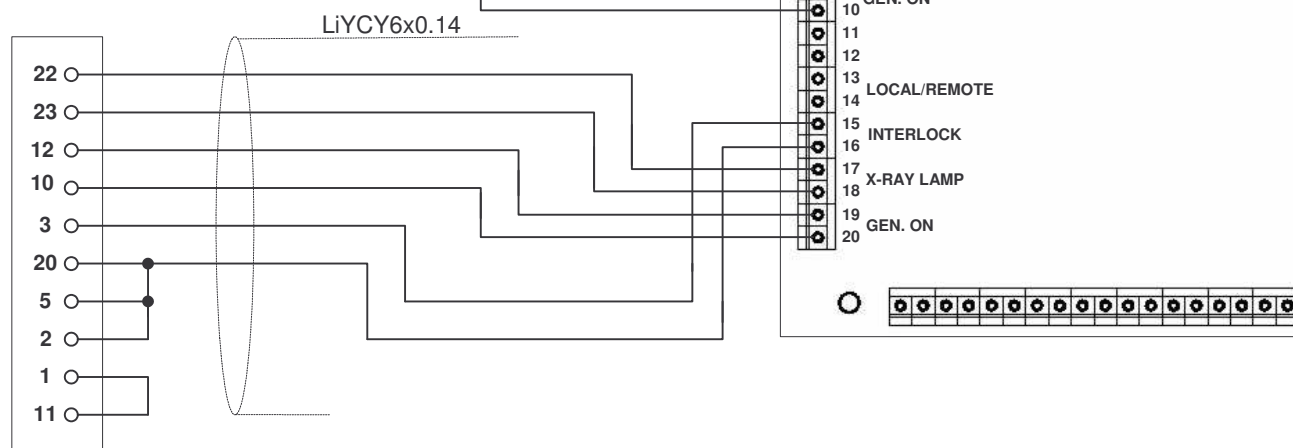
Appr


Date

**JB1
X-RAY GENERATOR Mo**

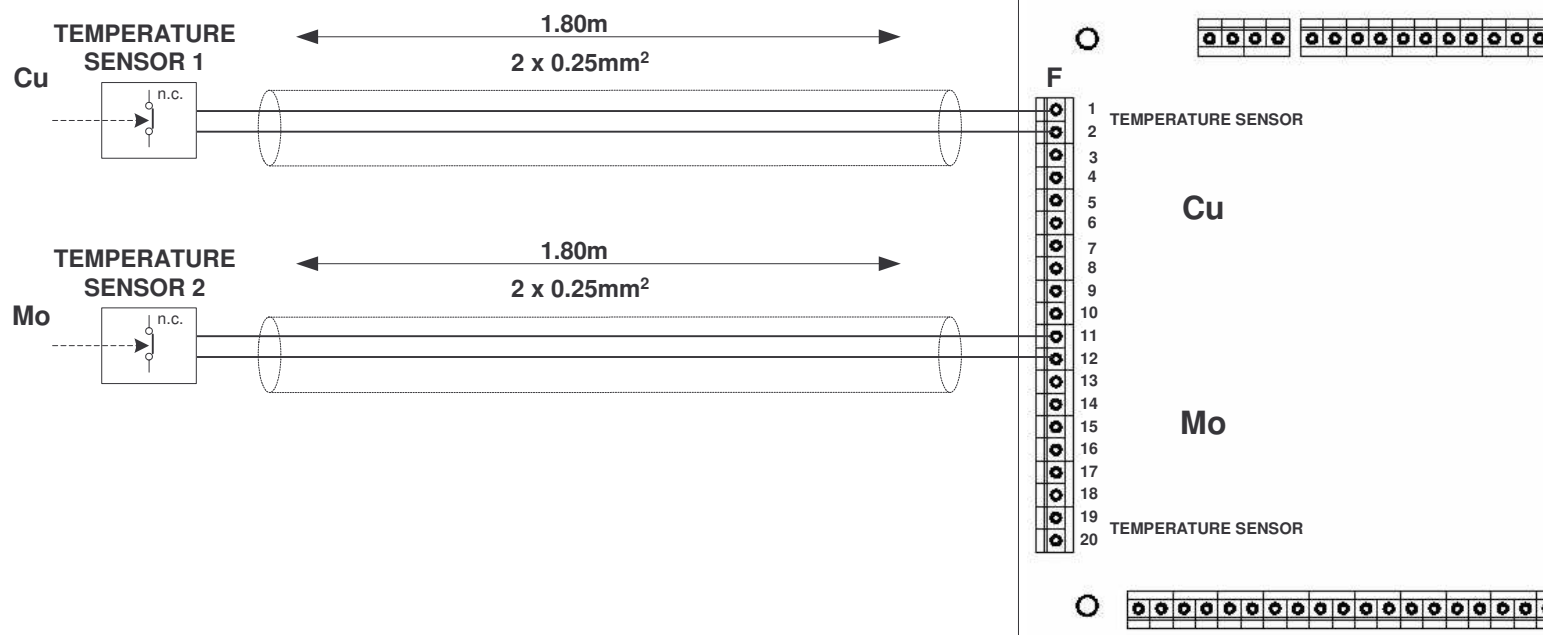



**JB1
X-RAY GENERATOR Cu**

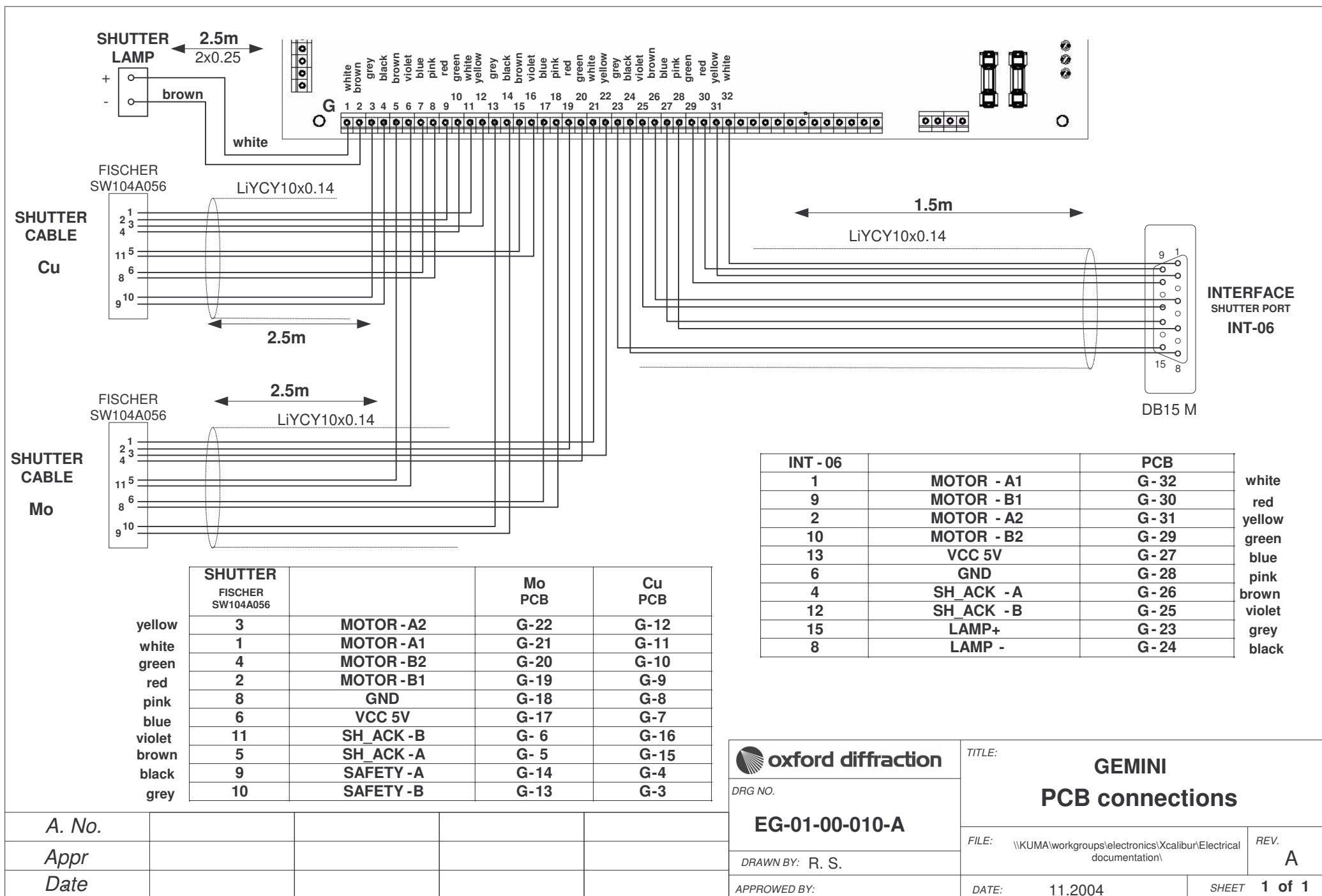


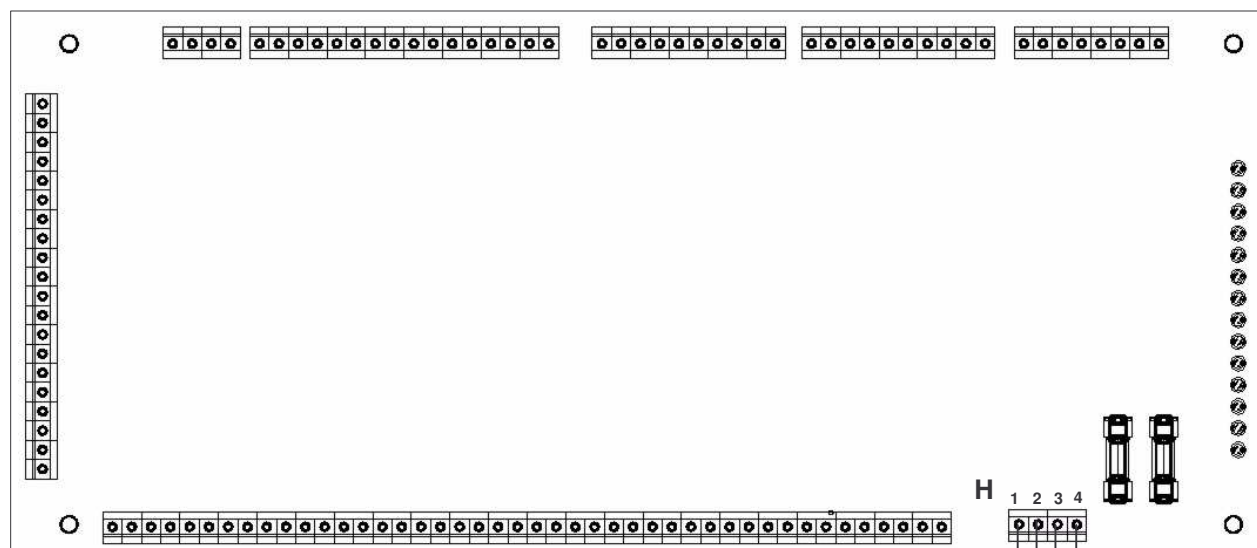
 oxford diffraction DRG NO. EG-01-00-008-A	TITLE: GEMINI PCB connections	
	FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. A
DRAWN BY: R. S. APPROVED BY:	DATE: 11.2004	SHEET 1 of 1

A. No.				
Appr				
Date				



					 oxford diffraction DRG NO. EG-01-00-009-A	TITLE: GEMINI PCB connections	
<i>A. No.</i>						FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. A
<i>Appr</i>					DRAWN BY: R. S.		
<i>Date</i>					APPROVED BY:	DATE: 11.2004	SHEET 1 of 1





POWER SUPPLY
24V DC

+24V
GND

POWER SUPPLY
5V DC

+5V
GND

POWER SUPPLIES	PCB
+24V	H - 1
GND	H - 2
+5V	H - 3
GND	H - 4



DRG NO.

EG-01-00-011-A

DRAWN BY: R. S.

APPROVED BY:

TITLE:

**GEMINI
PCB connections**

FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical
documentation\

REV.

A

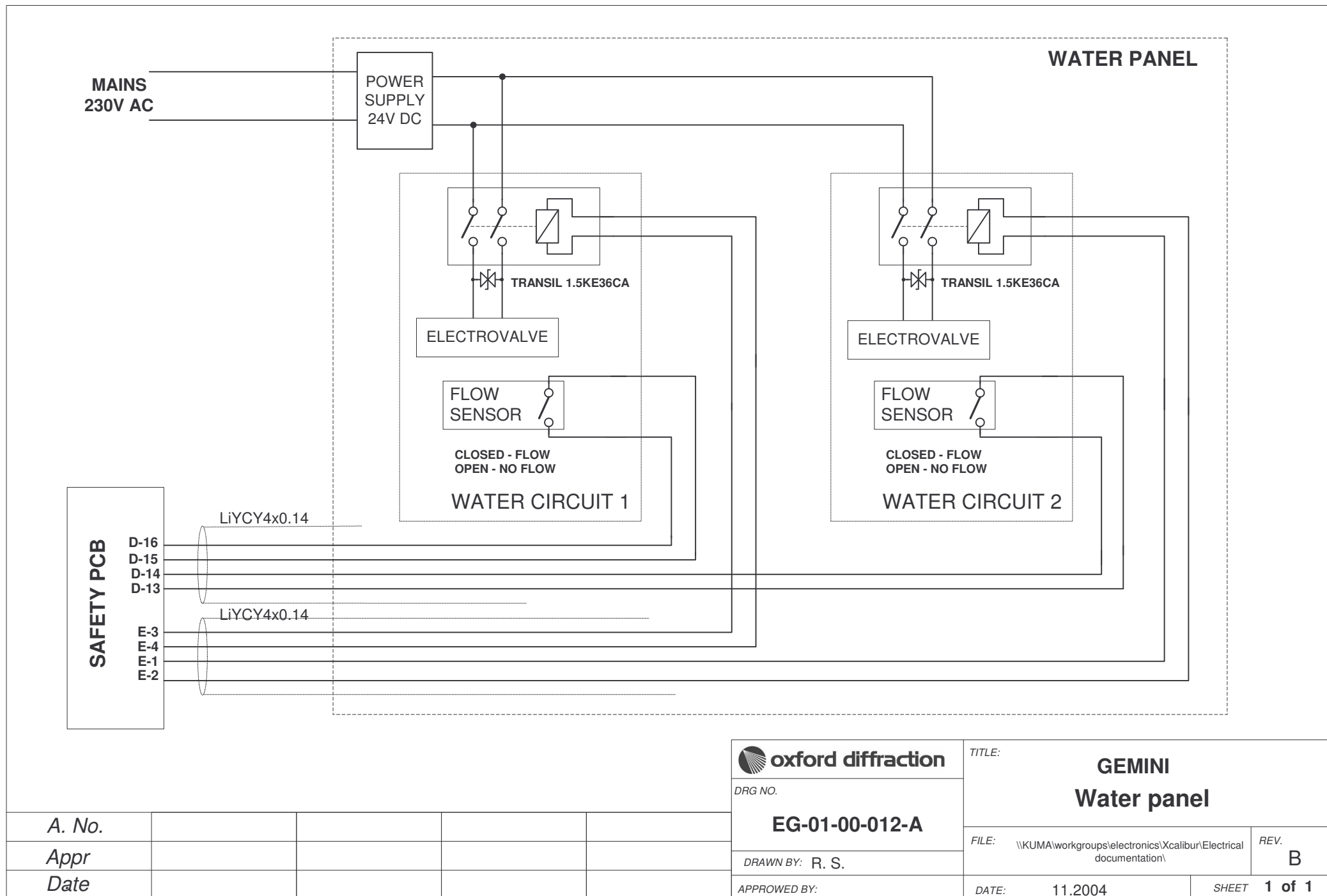
DATE: 11.2004

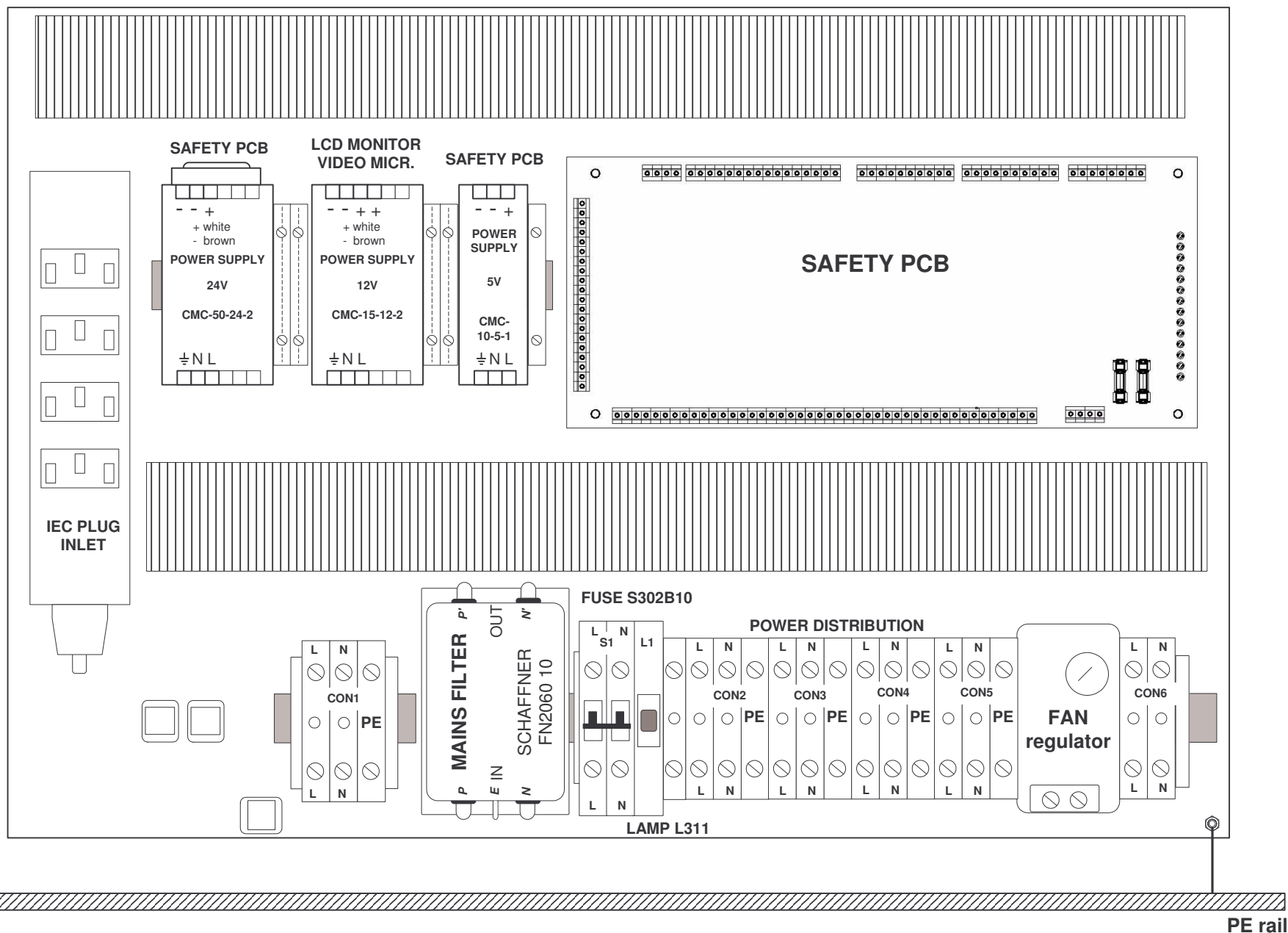
SHEET **1 of 1**


A. No.

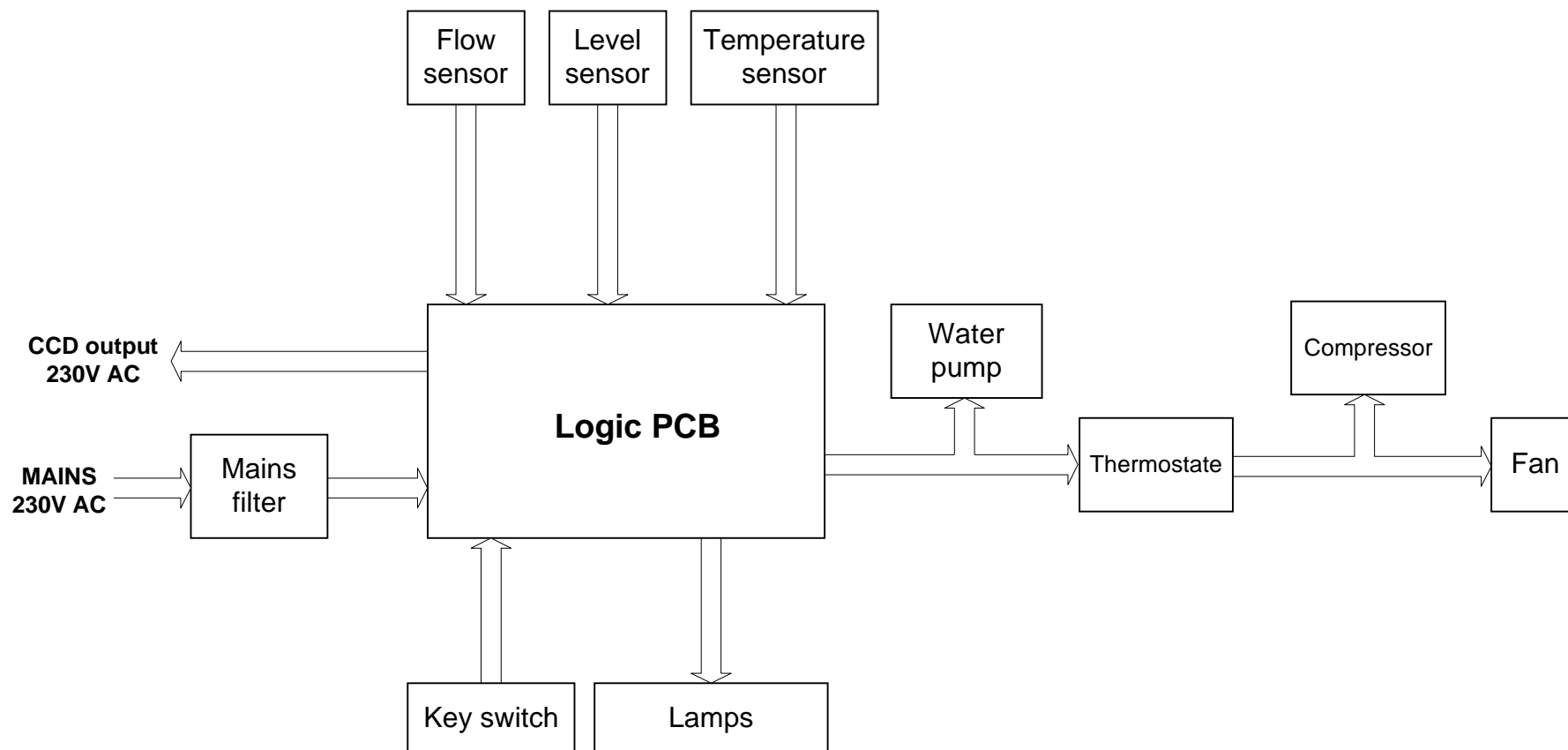
Appr


Date



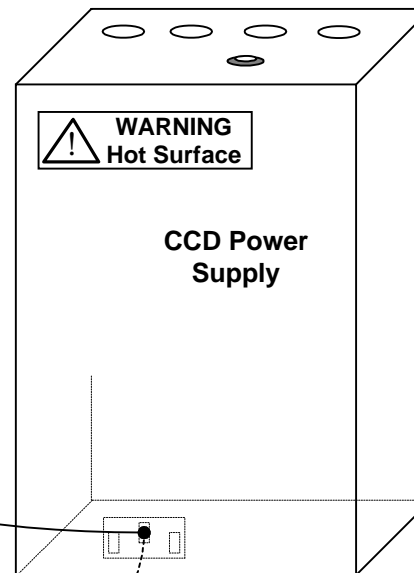
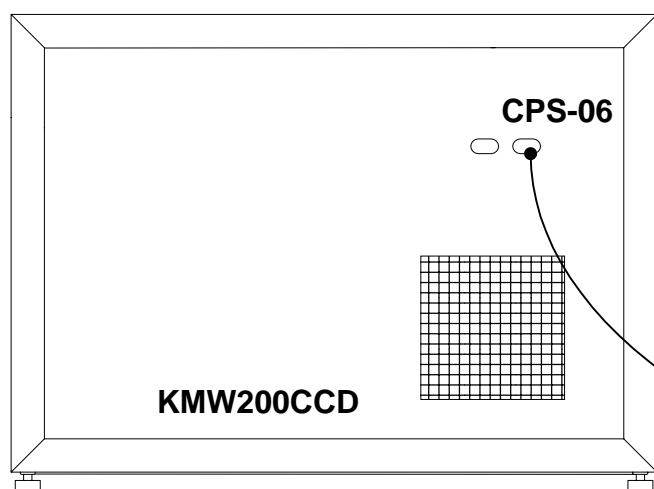


A. No.					 oxford diffraction DRG NO. EG-01-00-013-A DRAWN BY: R. S. APPROVED BY:	TITLE: GEMINI Electrical panel		
Appr						FILE: \\KUMA\workgroups\electronics\Xcalibur\Electrical documentation\	REV. A	
Date						DATE: 11.2004	SHEET 1 of 1	

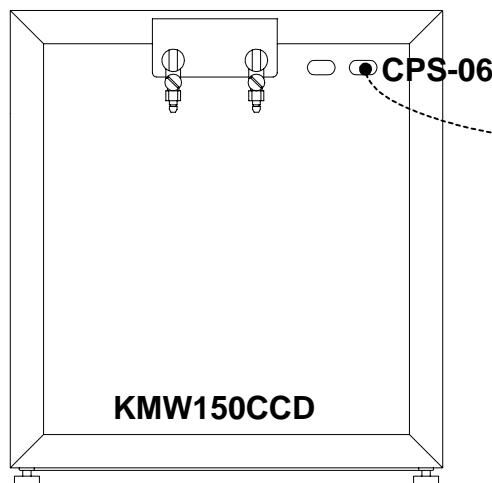


 oxford diffraction DRG NO. EW-02-00-001-A DRAWN BY: R. S. APPROVED BY:	TITLE: KMW150CCD / KMW200CCD Electrical block scheme		
	FILE:	\\KUMA\workgroups\electronics\KMW150CCD\	REV. A
	DATE:	10.2002	SHEET 1 of 1


A. No.				
Appr				
Date				



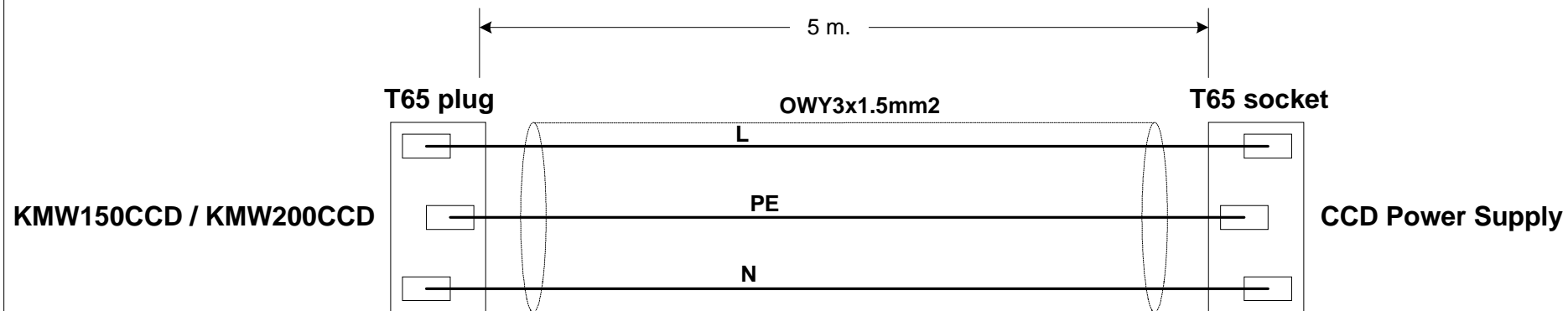
EC-01-02-001-A




KPNS code: EC-01-02-001-A		Length: 5.0m	Drq no.: EC-01-02-001-A
Description: CCD supply			
Cable: 3 x 1.5mm², white		Connector 1: CPS-06	Connector 2: CPS-05
		PNS code: EA-06-00-014-A	PNS code: EA-06-00-015-A
PNS code: EA-05-00-016-A		Type: T65 male	Type: T65 female
Type: OWY3x1.5mm²		Location: KMW150CCD	Location: CCD p. s.

 oxford diffraction DRG NO. EC-01-02-001-A	TITLE: CCD Power Supply 230VAC Supply cable		
	DRAWN BY: R. S. APPROVED BY:	FILE: \\KUMA\workgroups\electronics\gonio68332\cables DATE: 03/01/2002	REV. A SHEET 1 of 2

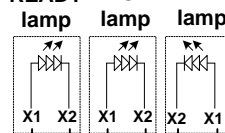
A. No.				
Appr				
Date				



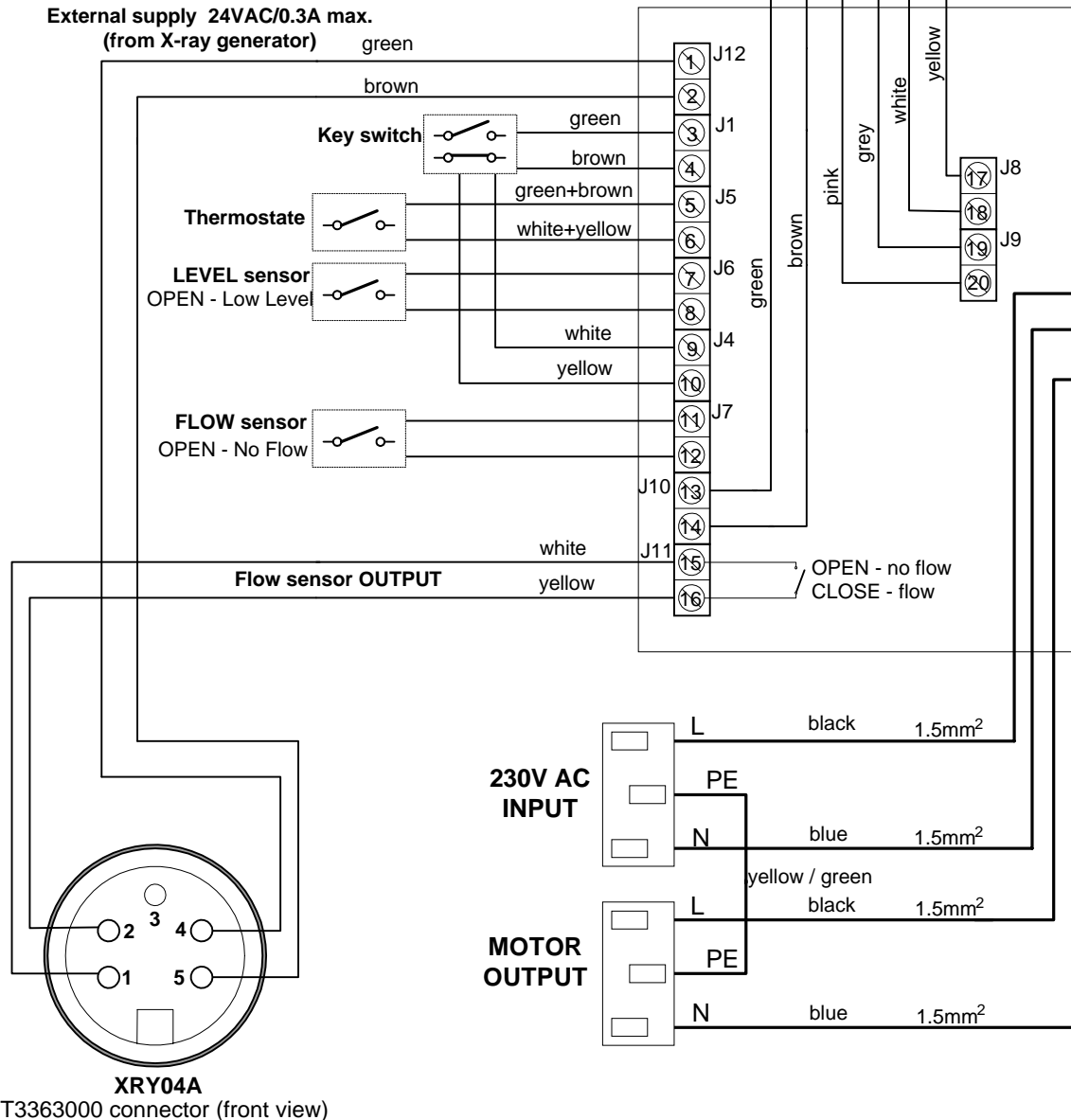
							TITLE: CCD Power Supply	
					DRG NO. EC-01-02-001-A		230VAC Supply cable	
A. No.					DRAWN BY: R. S.		FILE: \\KUMA\workgroups\electronics\gonio68332\cables	REV. A
Appr					APPROVED BY:		DATE: 03/01/2001	SHEET 2 of 2
Date								

READY Lamp - MultiLED 24VDC/12,5mA GREEN
 FLOW Lamp - MultiLED 24VDC/12,5mA YELLOW
 LEVEL Lamp - MultiLED 24VDC/12,5mA RED

READY FLOW LEVEL



External supply 24VAC/0.3A max.
 (from X-ray generator)



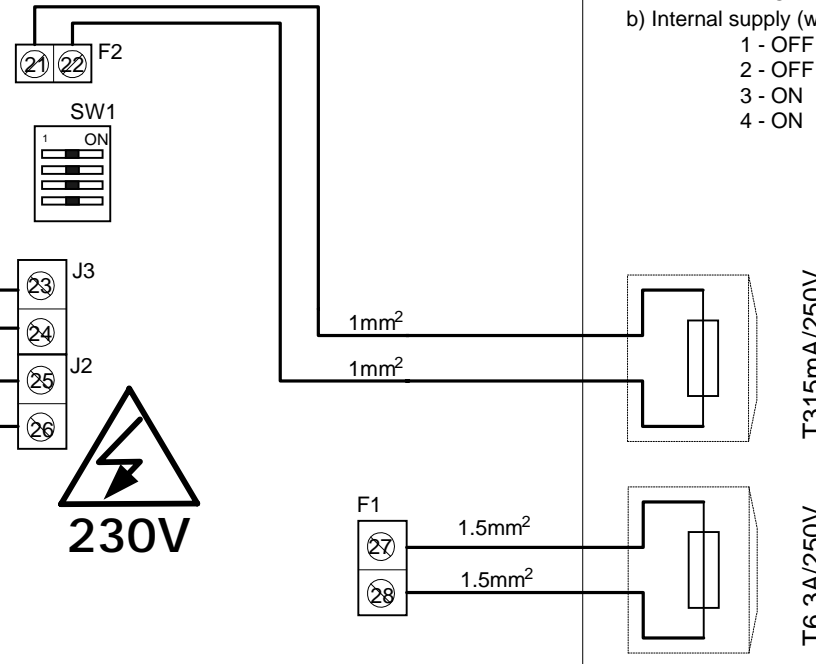
SW1 SETTINGS:

a) External supply 24VAC:

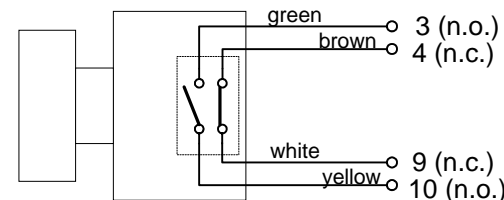
- 1 - ON
- 2 - ON
- 3 - OFF
- 4 - OFF

b) Internal supply (with TR1):

- 1 - OFF
- 2 - OFF
- 3 - ON
- 4 - ON



Key switch
 (SWISSTAC 761-.401-00)



TITLE:

KMW3000C
Electrical connection scheme

FILE: \electronics\KMW3000C\

REV. A

DATE: 7/02/2002

SHEET 1 of 1